

Long-term Data Preservation and Re-use: the work of the Archaeology Data Service

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Archaeology Data Service
University of York

Outline

- Political Context – Open Data
- Challenges:
 - Digital Preservation
 - Resource Discovery and Interoperability – finding & joining up fragmented and diverse data sets
- Opportunities:
 - Digital dissemination & electronic publication

Open Data in Europe

13 June 2013 –
European
parliament
ratifies new rules
on Open Data -
includes cultural
heritage data



Blog of Neelie KROES
Vice-President of the European Commission



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[European Commission](#) > [The Commissioners \(2010-2014\)](#) > [Neelie Kroes](#) > [Blog](#)

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EU unlocks a great new source of online innovation

June 13th, 2013 | Number of views :9685

Today the [European Parliament](#) voted to formally agree new rules on open data – effectively making a reality of the proposal which [I first put forward just over 18 months ago](#), and making it **easier to open up huge amounts of public sector data**. This is about the data that public authorities can lawfully put out there – a huge wealth of **information about your public services, how administrations are spending your tax euros, geographical or cultural information**, and the like.

There's a huge benefit to opening up. Once information is out there, there is so much you can do with it. Today many of you are familiar with apps that tell you where you are and where you need to go – based on public data from [Global Positioning System](#) (GPS) satellites. But it goes beyond that: the boost from easier access is of the order tens of billions of euros. In short, this is an amazing raw material for innovation; we're basically sitting on a goldmine.

But to make a real difference you need a few things. You need prices for the data to be reasonable if not free – given that the marginal cost of your using the data is pretty low. You need to be able to not just use the data: but re-use it, without dealing with complex conditions. And you need a wide range of data from across the EU, with consistent rules to make it easier to handle (like being machine-readable,

RECENT POSTS

- [Money, money, money](#)
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- [Mobile roaming and the four stages of grief](#)
- [EU's Member States agree on measures to improve broadband investment](#)
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SEARCH

Search

TAGS

2013: G8 Open Data Charter



18 June 2013: “a new era in which people can use open data to generate insights, ideas, and services to create a better world for all.”

The Five Principles

Policy paper

G8 Open Data Charter and Technical Annex

Published 18 June 2013

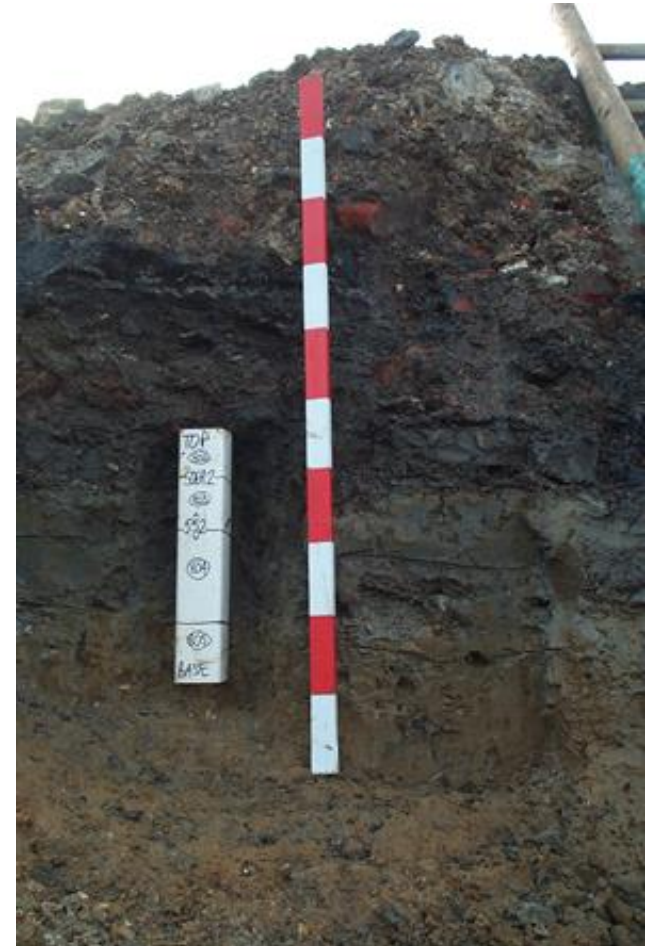
1. Open Data by Default
2. Increase Quality and Quantity for re-use
3. Usable by All
4. Releasing Data for improved Governance
5. Releasing Data for Innovation

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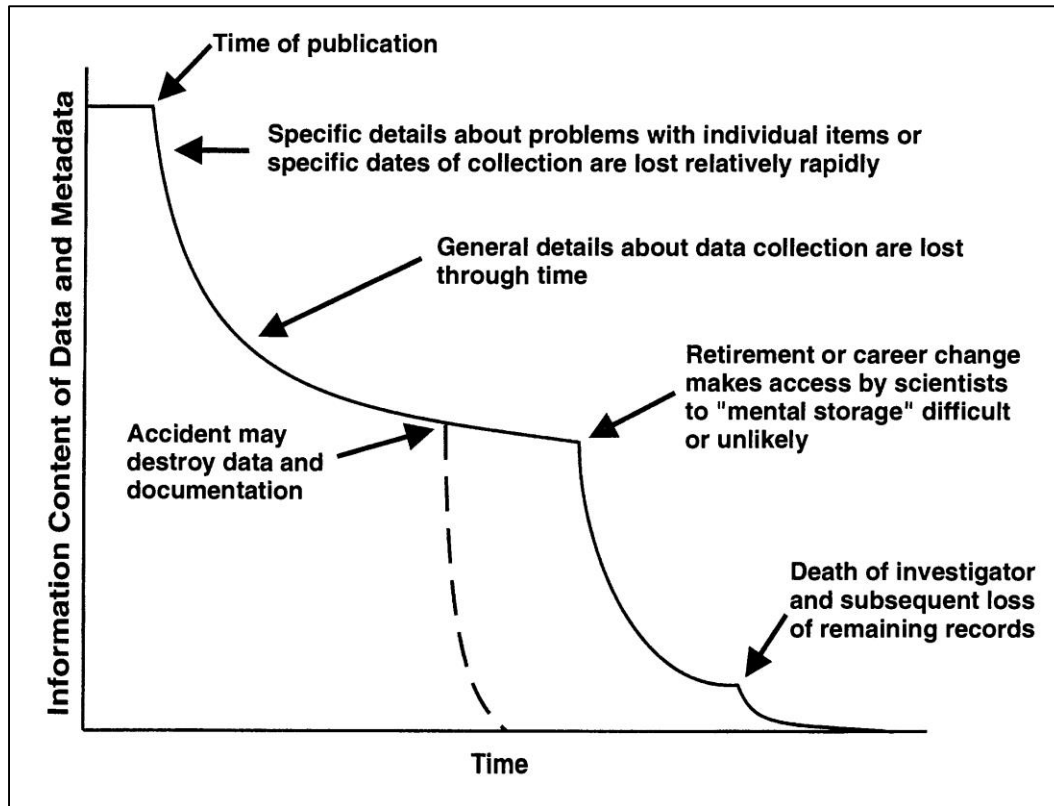
Digital Data and Heritage Management

- Archaeology is **destructive**
- Concept of “preservation by record”
- Comprehensive records of field work are imperative



The Preservation and Re-use of Archaeological Data

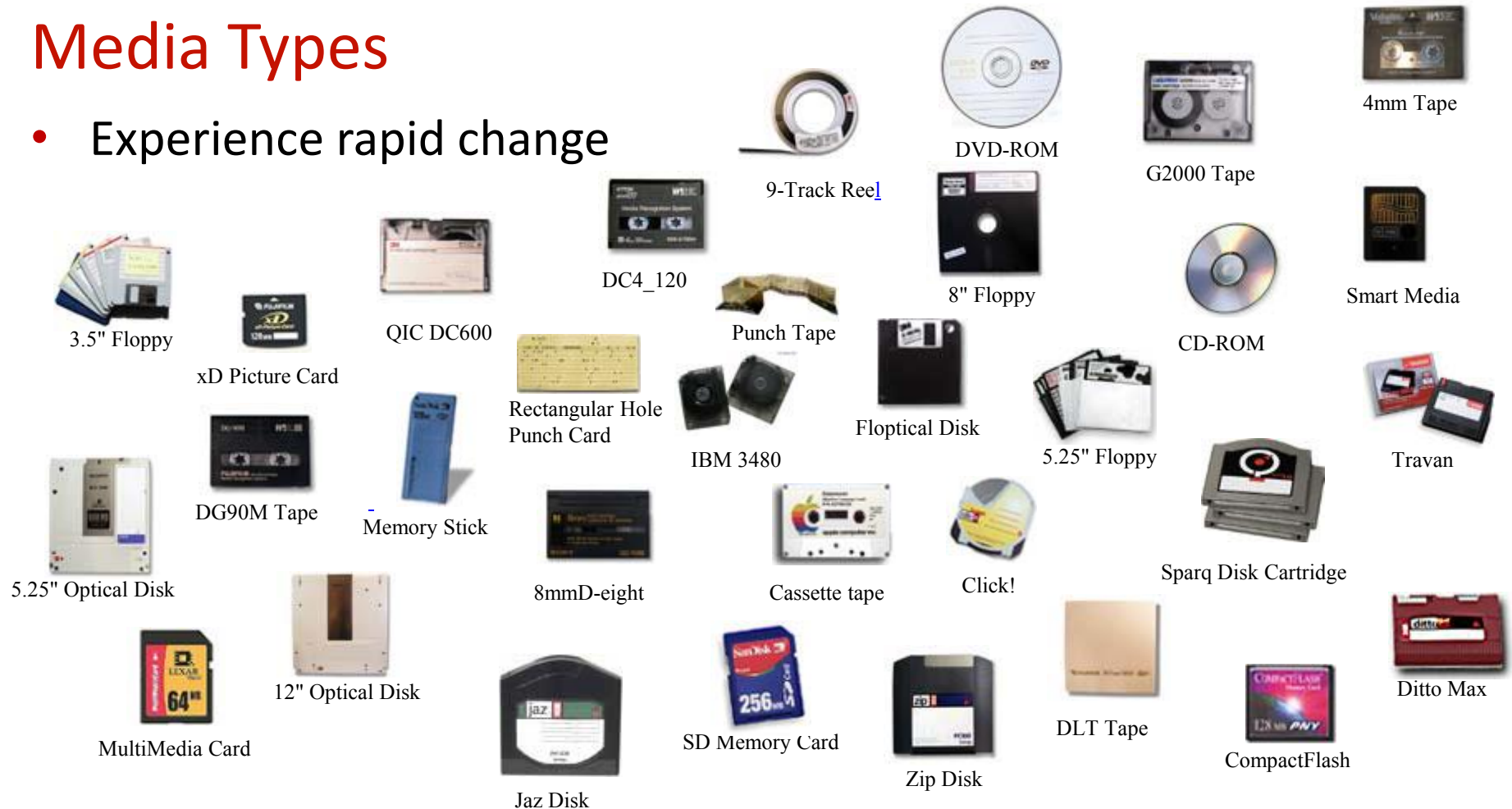
Information entropy



Michener, W.K., Brunt, J.W., Helly, J.J., Kirchner, T.B. and Stafford, S.G. 1997. Nongeospatial Metadata for the Ecological Sciences. *Ecological Applications*. 7: 330-342.

Media Types

- Experience rapid change



Digital Data Challenges

- Fragile as the archaeological record we excavate
- Still archived as objects rather than computerised information



Case Study: NASA

- NASA sent two Viking Landers to Mars in 1975
- Data recorded on magnetic tape
- Climate controlled environment
- In the 1990s they could not decode the formats used.
- Track down old printouts and retype everything.

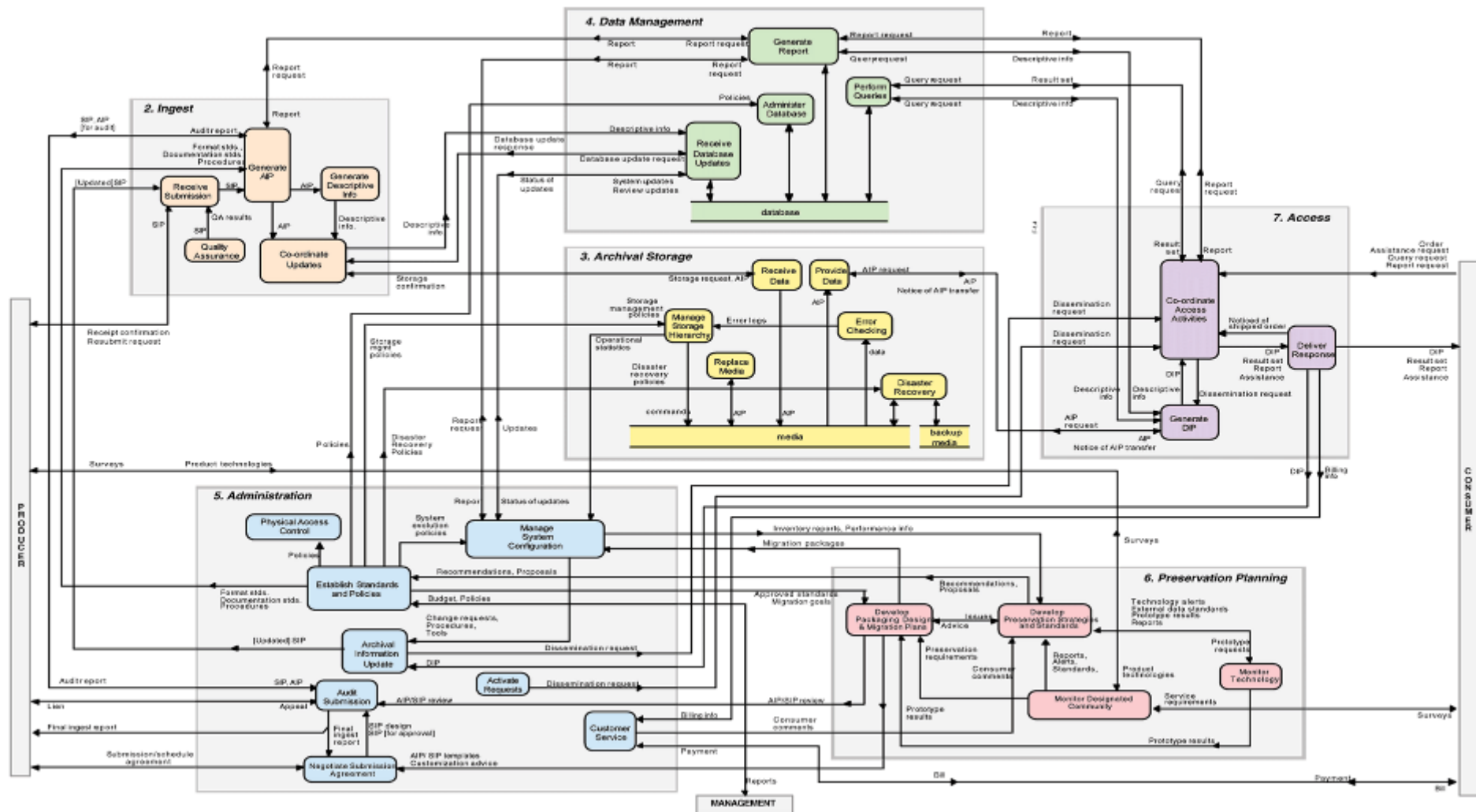


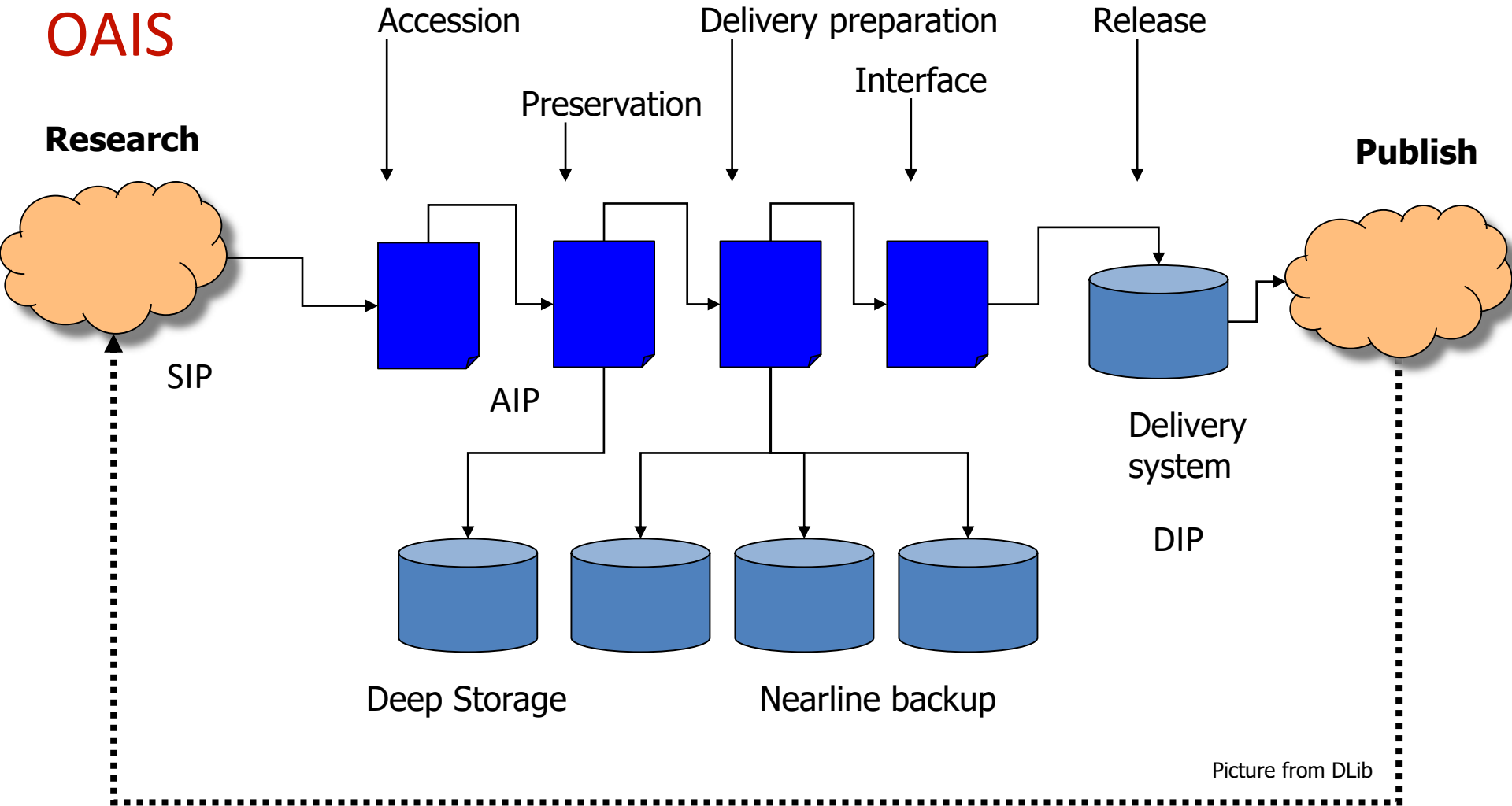
Photos: Courtesy NASA/JPL-Caltech

The Preservation and Re-use of Archaeological Data

"Digital information lasts forever - or five years,
whichever comes first."

(Jeff Rothenberg, RAND Corp., 1997)





The Archaeology Data Service

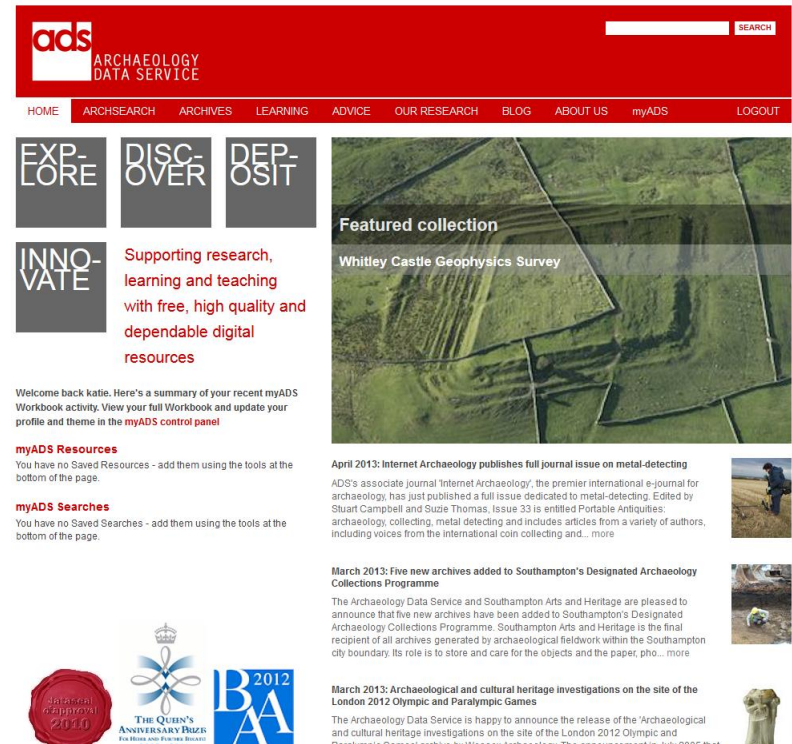
- Set up in 1996
- Based within the University of York
- 15 staff
- Business model based upon charging policy
- Data Seal of Approval
- Received Digital Preservation Coalition's Decennial Award in 2012
- Feb 2016: 10Tb; 2,054,846 **files**; 18,505 recorded **processes**



The Archaeology Data Service

“Supporting research, learning and teaching with free, high quality and dependable digital resources”

- Collects and preserves datasets
- Provides easy and free access to datasets
- Provides guidance and support to data creators



The screenshot shows the homepage of the Archaeology Data Service (ADS). The header features the ADS logo and a search bar. The main navigation menu includes links for HOME, ARCHSEARCH, ARCHIVES, LEARNING, ADVICE, OUR RESEARCH, BLOG, ABOUT US, myADS, and LOGOUT. Below the navigation, there are three large buttons: EXPLORE, DISCOVER, and DEPOSIT. A featured collection section highlights the 'Whitley Castle Geophysics Survey'. The page also includes sections for 'myADS Resources' and 'myADS Searches', both of which indicate that the user has no saved resources or searches. At the bottom, there are several news items and logos, including the Queen's Anniversary Prize and the British Archaeological Association (BA) 2012 logo.

The Preservation and Re-use of Archaeological Data

...the archaeological record could be decaying faster in its digital form than it ever did in the ground

...the Newham case study

Archive:

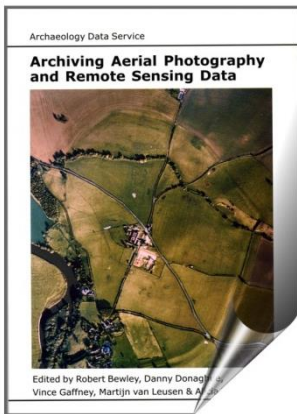
6432 individual files
1500 excavation reports
700 database files
1200 geophysics files
200 separate projects
approx. 150 excavations

Lessons:

Physical Media not the main problem
Software problems (migration)
Data to information (documentation)
Plan for re-use
Forward planning is much cheaper
Preservation from the outset

Guides to Good Practice

- GIS
- CAD
- Geophysics
- AP and Remote Sensing
- Excavation and Fieldwork
- Virtual Reality



Archaeology Data Service / Digital Antiquity Guides to Good Practice

[Log in](#)

- [Home](#)
- [Full Table of Contents](#)

- **Digital Archiving**
 - [About these Guidelines](#)
 - [How to use these Guides](#)
 - [What is Digital Archiving?](#)
 - [Archival Strategies](#)

- **The Project Lifecycle**
 - [Planning for the Creation of Digital Data](#)
 - [Project Documentation](#)
 - [Project Metadata](#)
 - [Data Selection: Preservation Intervention Points](#)
 - [The Project Archive: Storage and Dissemination](#)
 - [Copyright and Intellectual Property Rights](#)

- **Basic Components**
 - [Documents and Texts](#)

This new and revised series of Guides to Good Practice have been produced as the result of a two-year collaborative project between the UK Archaeology Data Service and Digital Antiquity in the US. The project has encompassed important revisions of the existing six ADS *Guides* as well as the development of entirely new documents covering areas such as marine survey, laser scanning, close-range photogrammetry, digital audio and digital video. The project has involved previous Guides authors revising existing content alongside new authors, from both Europe and the US, also contributing to the development of the guides into new themes and areas.

The project has been undertaken in collaboration with the Digital Antiquity initiative, a US-based project with the aim of enhancing the preservation of and access to digital records of archaeological investigations. A major aim of the Guides is to provide the basis for archaeological project workflows that will create digital datasets that can be archived and shared effectively by Digital Antiquity's tDAR archive and repository in the US and by the Archaeology Data Service in the UK. The development of the *Guides* involves close collaboration with teams in the US at both the University of Arkansas and Arizona State University.

Other ADS projects have also fed into the revision and development of the Guides. ADS involvement in the European VENUS project has formed the basis of a guide focussed on marine survey. In addition, the incorporation of findings from the ADS Big Data project, together with the revision of the existing guide on aerial photography and remote sensing data, has seen a significant contribution to the guides from English Heritage funded projects.

Previous versions of the ADS/AHDS Guides to Good Practice have been archived and are still available on the old Guides to Good Practice page.

View the full new Guides to Good Practice [Table of Contents](#)



The Andrew W. Mellon Foundation

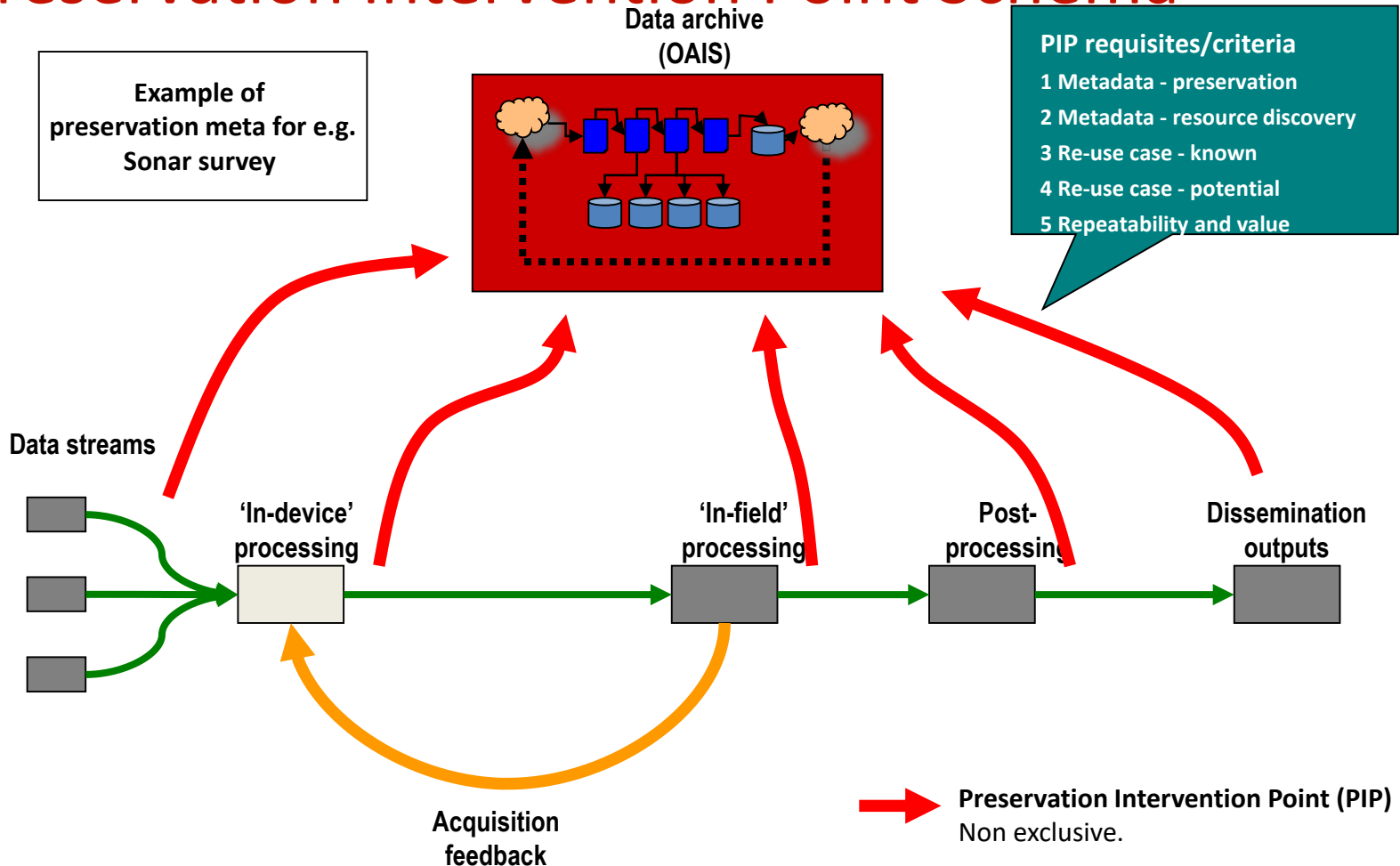


ENGLISH HERITAGE



The Preservation and Re-use of Archaeological Data

Preservation Intervention Point Schema



Outline


- Challenges:
 - Digital Preservation
 - Resource discovery & Interoperability
- Opportunities:
 - Digital dissemination & electronic publication

My lithics report here, on floppy disc



The Preservation and Re-use of Archaeological Data

ADS Website



ARCHAEOLOGY
DATA SERVICE

[HOME](#)
[ARCHSEARCH](#)
[ARCHIVES](#)
[LEARNING](#)
[ADVICE](#)
[OUR RESEARCH](#)
[ABOUT US](#)
[LOGIN](#)

EXPLORE

DISCOVER

DEPOSIT

INNOVATE

Supporting research, learning and teaching with high quality and dependable digital resources

Notice

We are currently conducting a Beta testing program where registration is temporarily required to access this site, just click the LOGIN button at the top right to register. It is important to read the 'About this beta test' section on the 'About Us' pages after logging in. Please contact the ADS Helpdesk if you require further information regarding this or future beta testing programs.

We use Firefox browser for development testing and don't recommend using any other browsers during the beta testing period.

To access our current website, please follow this link: ads.ahds.ac.uk


Welcome to the new ADS website. There are a number of new features of the website that will make it easier and more enjoyable to use. Why not register as a myADS user to take full advantage of them. On registration these personal myADS features become available...

Workbook

Using the tools at the bottom of each page save your favourite resources and regular searches in the myADS Workbook.

History

Your recent exploration of the site and the archives is automatically saved in your myADS History.




Featured collection

Hilton of Cadboll

The Hilton of Cadboll Pictish cross-slab is thought to have been erected at the Chapel site in the late 8th century AD and, after breaking its tenon, to have been re-erected here in the 12th century. It is thought to have fallen in a storm and one side was defaced and re-carved with a memorial in the 17th century, leaving the fragments of the Pictish carving and the lower portion in-situ. Many thousands of carved fragments and the lower portion of the cross-slab were retrieved from the site during excavations in 1998 and 2001. The aim of the excavations was to retrieve all the fragments and record their location to the nearest 0.5m square in the hope that this would aid the reconstruction of the lost cross-face. All the fragments have been catalogued and photographed and made available to the public.


November 2010: Grey literature library reaches 7000 reports.

The ADS is pleased to announce that the recent addition of over 700 new reports to the online library of grey literature brings the total number available for download to 7061. The new releases include some 150 reports from Suffolk County Council Archaeological Service, 45 from Thames Valley Archaeological Services, 33 from North Pennines Archaeology Ltd and 16 reports from AOC Archaeology Group.... more




October 2010: ARENA2 demo video now available.

The ADS is pleased to announce the release of the Archaeological Records of Europe Networked Access (ARENA 2) demonstration video. The original ARENA portal has now been running more or less successfully since 2004. However, the underlying technologies have since been challenged by more sophisticated approaches to interoperability. Under the auspices of both the European funded DARIAH and ACE pr... more



October 2010: Limestone Cropmark Landscapes archive released.

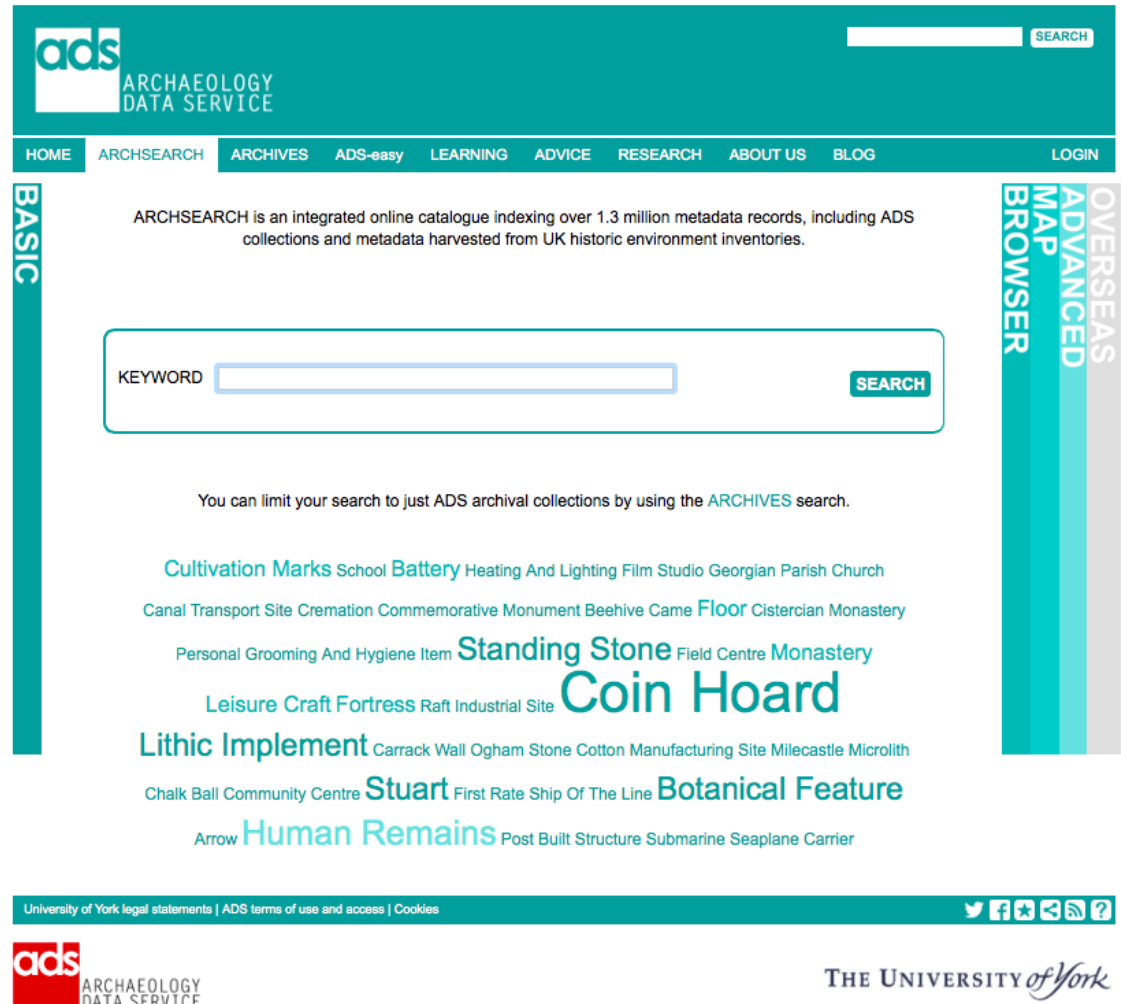
The ADS and English Heritage are pleased to announce the release of the Archaeological Cropmark Landscapes of the Magnesian Limestone project archive by Ian Roberts, David Berg and Alison Deegan. The project, funded by the Aggregates Levy Sustainability Fund between March 2005 and March 2007, was devised to investigate the prehistoric and Romano-British archaeological landscapes of the eastern p... more



The Preservation and Re-use of Archaeological Data

ArchSearch

Allows users to
search by key words:
“Type and Hope”



The screenshot shows the ADS ArchSearch homepage. At the top is the ADS logo and the text 'ARCHAEOLOGY DATA SERVICE'. Below this is a navigation bar with links: HOME, ARCHSEARCH, ARCHIVES, ADS-easy, LEARNING, ADVICE, RESEARCH, ABOUT US, BLOG, and LOGIN. The main content area has a teal sidebar on the left with the word 'BASIC' and a teal sidebar on the right with the words 'OVERSEAS', 'ADVANCED', 'MAP', and 'BROWSER'. The main content area contains a search box with the label 'KEYWORD' and a 'SEARCH' button. Below the search box is a paragraph: 'ARCHSEARCH is an integrated online catalogue indexing over 1.3 million metadata records, including ADS collections and metadata harvested from UK historic environment inventories.' Below this is a list of search results: 'Cultivation Marks School Battery Heating And Lighting Film Studio Georgian Parish Church', 'Canal Transport Site Cremation Commemorative Monument Beehive Came Floor Cistercian Monastery', 'Personal Grooming And Hygiene Item Standing Stone Field Centre Monastery', 'Leisure Craft Fortress Raft Industrial Site Coin Hoard', 'Lithic Implement Carrack Wall Ogham Stone Cotton Manufacturing Site Millecastle Microlith', 'Chalk Ball Community Centre Stuart First Rate Ship Of The Line Botanical Feature', and 'Arrow Human Remains Post Built Structure Submarine Seaplane Carrier'. At the bottom is a footer with the text 'University of York legal statements | ADS terms of use and access | Cookies' and social media icons. The ADS logo and 'ARCHAEOLOGY DATA SERVICE' are also in the bottom left, and 'THE UNIVERSITY of York' is in the bottom right.

ads ARCHAEOLOGY DATA SERVICE

HOME ARCHSEARCH ARCHIVES ADS-easy LEARNING ADVICE RESEARCH ABOUT US BLOG LOGIN

BASIC

OVERSEAS
ADVANCED
MAP
BROWSER

ARCHSEARCH is an integrated online catalogue indexing over 1.3 million metadata records, including ADS collections and metadata harvested from UK historic environment inventories.

KEYWORD SEARCH

You can limit your search to just ADS archival collections by using the [ARCHIVES](#) search.

Cultivation Marks School Battery Heating And Lighting Film Studio Georgian Parish Church
Canal Transport Site Cremation Commemorative Monument Beehive Came Floor Cistercian Monastery
Personal Grooming And Hygiene Item Standing Stone Field Centre Monastery
Leisure Craft Fortress Raft Industrial Site Coin Hoard
Lithic Implement Carrack Wall Ogham Stone Cotton Manufacturing Site Millecastle Microlith
Chalk Ball Community Centre Stuart First Rate Ship Of The Line Botanical Feature
Arrow Human Remains Post Built Structure Submarine Seaplane Carrier

University of York legal statements | ADS terms of use and access | Cookies

ads ARCHAEOLOGY DATA SERVICE

THE UNIVERSITY of York

The Preservation and Re-use of Archaeological Data

ArchSearch

Facetted browse of 1.3 million records



The screenshot displays the ArchSearch website interface. At the top, there is a teal header with the 'ads' logo and 'ARCHAEOLOGY DATA SERVICE' text. A search bar is located in the top right corner. Below the header is a navigation menu with links: HOME, ARCHSEARCH, ARCHIVES, ADS-easy, LEARNING, ADVICE, RESEARCH, ABOUT US, BLOG, and LOGIN. The main content area is divided into three vertical sections. On the left is a 'BROWSER BASIC' sidebar with facetted browse options under 'WHAT', 'WHERE', 'WHEN', and 'RESOURCE'. The central area shows search results for '1350098 Total results.' with a 'RESET QUERY' button. The results are listed under 'ABBEE FIELDS ABBEYMead', 'AINS BROOK SITE', 'APPLEGARTH WEST OF ST ANDREWS CHURCHYARD', 'BAKERS MEDIEVAL', 'BARDS WALK WOOD STREET', and 'BARNCROFT ADDINGTON'. Each result includes a brief description and the location. On the right is a vertical sidebar with links: MAP, ADVANCED, and OVERSEAS.

ads ARCHAEOLOGY DATA SERVICE

HOME ARCHSEARCH ARCHIVES ADS-easy LEARNING ADVICE RESEARCH ABOUT US BLOG LOGIN

RESET QUERY

KEYWORD SEARCH

1350098 Total results. 1 2 3 ...

ABBEE FIELDS ABBEYMead
Historic England NRHE Excavation Index for England
Followed by excavation 14/86 (Event 652905). Observation of sewer trench.
GLOUCESTERSHIRE

AINS BROOK SITE
Historic England NRHE Excavation Index for England
Evaluation and excavation of the site of a Viking period hoard recorded a disturbed burial with grave goods and a large Bronze Age enclosure. Metal detectorists had previously removed '7000' artefacts from the site, the location of which is kept secret.
NORTH YORKSHIRE

APPLEGARTH WEST OF ST ANDREWS CHURCHYARD
Historic England NRHE Excavation Index for England
Two small trial trenches in the garden of a 1960s bungalow adjacent to the churchyard boundary wall on the west side of St Andrew's Church revealed traces of the Roman road from the Mendips to the River Avon, possibly RR540. There were also indications of a possible Roman roadside settlement, as well as earlier medieval activity pre-dating the laying out of the market place.
BATH AND NORTH EAST SOMERSET

BAKERS MEDIEVAL
Historic England National Inventory (NRHE)
Post medieval house
EAST SUSSEX

BARDS WALK WOOD STREET
Historic England NRHE Excavation Index for England
Developer: Prudential Portfolio Managers. Information from Survey of Medieval Ceramic Studies.
WARWICKSHIRE

BARNCROFT ADDINGTON
Historic England NRHE Excavation Index for England
Small test excavation. SMR number(Greater London): 020369
GREATER LONDON AUTHORITY

BROWSER BASIC

WHAT

- Event 135921
- Evidence 258779
- Maritime 60447
- Monument Types 1160764
- Object Types 180741

WHERE

- England 811597
- Northern Ireland 18462
- Scotland 347929
- Wales 151210
- Isle Of Man 1430

WHEN

- Early Prehistoric 13943
- Later Prehistoric 96127
- Roman 73272
- Early Medieval 21015
- Medieval 143219
- Post Medieval 355021
- Modern 75428

RESOURCE

- ADS Archive 494
- Channel Tunnel Rail Link 176
- Chwyd-Powys Archaeological Trust 65183
- Defence of Britain Archive 20173
- Dyfed Archaeological Trust 32612
- Englands Rock Art 851
- Exeter City HER 349
- Glamorgan-Gwent Archaeological Trust 23935
- Greater London HER 67440
- Grey Lit Library 32467
- Gwynedd Archaeological Trust 12671
- Historic England National Inventory 354804

MAP ADVANCED OVERSEAS

The Preservation and Re-use of Archaeological Data

ArchSearch

Narrow results
by facets

ads ARCHAEOLOGY DATA SERVICE

HOME ARCHSEARCH ARCHIVES ADS-easy LEARNING ADVICE RESEARCH ABOUT US BLOG LOGIN

WHAT Defence WHERE Shropshire WHEN Roman RESET QUERY

KEYWORD SEARCH

196 Total results.

Wroxeter Castle Hall Orchard
Shropshire Sites and Monuments Record
Roughly rectangular earthwork which would appear to have resulted from the construction of the Roman defences, subsequently utilised as a moated site / castle? after the Norman Conquest. To the south an earth dam, now breached, would have impounded water in the ditch of the Roman city. Possible reference to this site in Inquisitions Post Mortem 12 Edward I <2>

Trial trenches by Houghton in 1970 across the postulated castle site produced some C12 and C13 pottery. They located the line of the Roman town wall to the north of the stream, and ditches thought to be part of a medieval ...

Shropshire

A Watching Brief at Rhyn Park St Martins Shropshire 2010
ADS Grey Literature Library
A Watching Brief at Rhyn Park, St Martins, Shropshire 2010
SHROPSHIRE

A Watching Brief at Wroxeter Roman Fort Wroxeter Shropshire 2012
ADS Grey Literature Library
A Watching Brief at Wroxeter Roman Fort, Wroxeter, Shropshire, 2012
SHROPSHIRE

AFFCOT
Historic England NRHE Excavation Index for England
No description
SHROPSHIRE

ATCHAM AIRFIELD
Historic England NRHE Excavation Index for England
Section excavated through Wroxeter's eastern defences. National Trust
Project Reference No.: 794
SHROPSHIRE

BROWSER

WHAT

- Event 59
- Evidence 64
- Monument Types 196
 - Agriculture And Subsistence 5
 - Civil 18
 - Commemorative 1
 - Commercial 2
 - Communications 9
 - Defence 196
 - Domestic 64
 - Health And Welfare 1
 - Industrial 10
 - Maritime 3
 - Monument [By Form] 58
 - Recreational 2
 - Religious Ritual And Funerary 1
 - Transport 13
 - Unassigned 19
 - Water Supply And Drainage 5
 - Object Types 39

WHERE

- England 196
 - Cornwall 1
 - Norfolk 1
 - North Yorkshire 1
 - Shropshire 196
 - Atcham 2
 - Baschurch 2
 - Berrington 2
 - Bridgnorth 8
 - Chirbury With Brompton 11
 - Church Stretton 1
 - Clun 4

ADVANCED MAP OVERSEAS

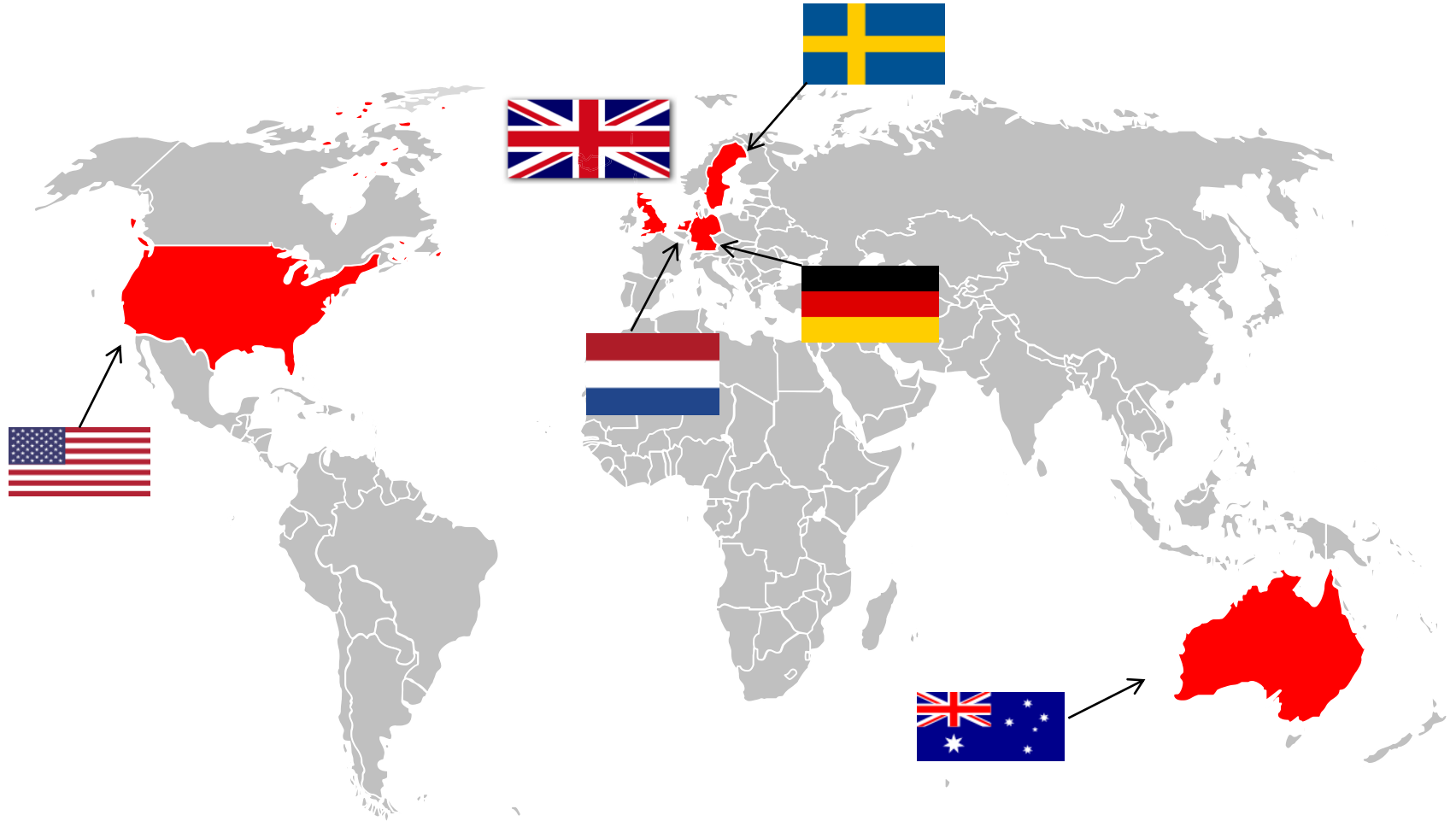
The Preservation and Re-use of Archaeological Data

ArchSearch

Search by location

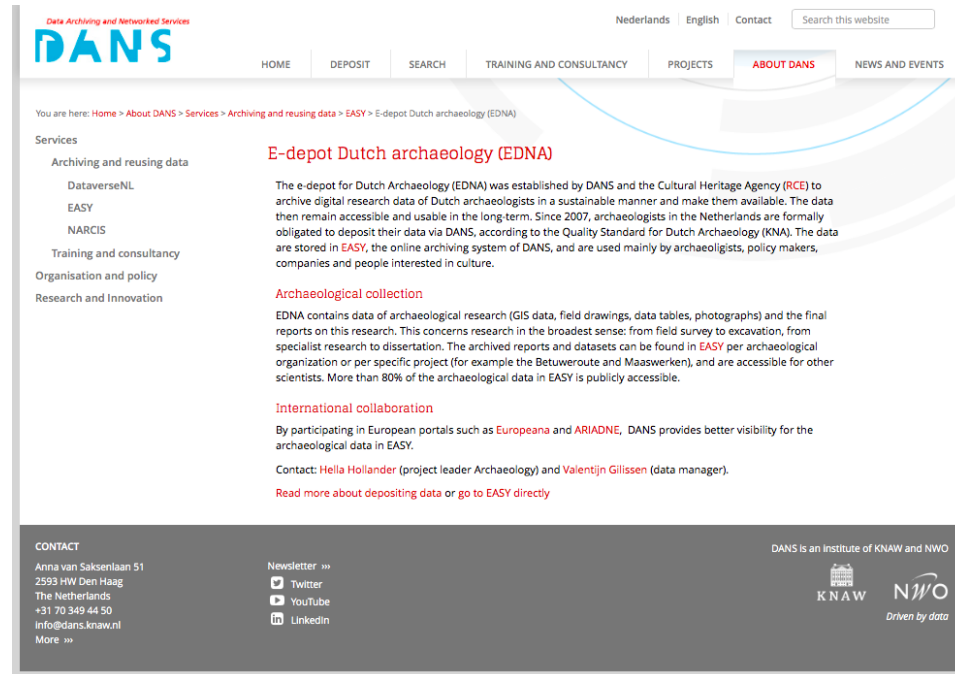
The screenshot displays the ADS ArchSearch web interface. At the top, the ADS logo and 'ARCHAEOLOGY DATA SERVICE' text are visible. A search bar with a 'SEARCH' button is in the top right. Below the header, a navigation menu includes links for HOME, ARCHSEARCH, ARCHIVES, ADS-easy, LEARNING, ADVICE, RESEARCH, ABOUT US, BLOG, and LOGIN. The main search area shows filters for 'WHEN Roman' and a map with coordinates (Min lat/lon: (52.544626, -2.839966), Max lat/lon: (52.728808, -2.546082)). A 'RESET QUERY' button is present. The search results show '502 Total results' and a list of items including 'Wroxeter Castle Hall Orchard', 'THE SHIELDING MEOLE BRACE', 'WHITLEY CHAPEL', '23 BARROW STREET', and several 'Watching Brief' entries for Wroxeter. A map on the right shows the geographical distribution of results around Shrewsbury. The interface also features a 'MAP BROWSER BASIC' sidebar on the left and an 'OVERSEAS ADVANCED' sidebar on the right. The footer contains the University of York legal statements, ADS terms of use, and social media links.

National Preservation Infrastructures



Netherlands: eDNA


- 2004-6 pilot study – DANS & Leiden University
- 2007 eDNA
- 2 months of staff, plus DANS infrastructure
- 2015 – 20,000+ fieldwork reports




Sweden: SND

- Swedish National Data Service, University of Gothenburg
- 2012 first archaeological archives, in collaboration with Uppsala University – GIS files, Östergötland
- Swedish Rock Art archives

På svenska Adjust

SND Swedish National Data Service  UNIVERSITY OF GOTHENBURG



Order data Deposit data Researchers' support Grants and courses Projects About us SEARCH DATA »

Home > Search and order data > GIS Data  Site map

Search and order data

- Order data
- Question bank (beta)
- Open Data
- SND Nesstar Server
- International data
- The Swedish Gallup archive 1942-1954
- Swedish party programmes and election manifestos 1902-2002
- GIS Data**
- Data of the Month
- Accessibility levels

Archaeological GIS material freely available at SND



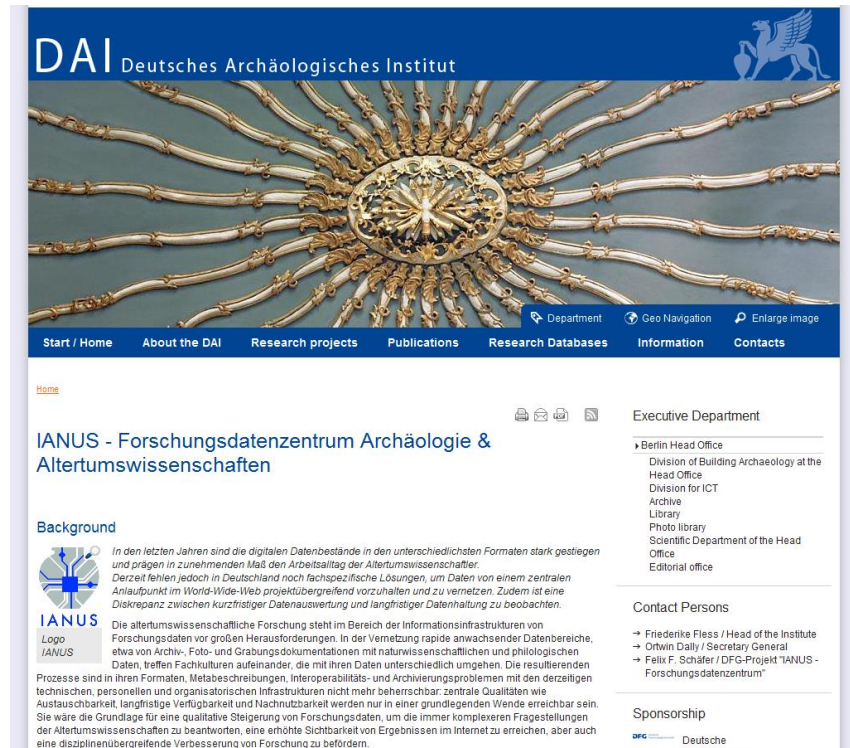
© Lantmäteriet

What did the Stone Age settlements in Östergötland look like? What archaeological findings were found during the excavation along the old E4? In SND's recently published GIS data, those who wish can immerse themselves in these and many other issues. Data are freely available and can be easily downloaded via [SND's catalogue](#).

– It feels really great that we now can make the material available directly through our website. One of the problems previously has been that this type of material has been difficult to access, says Ulf Jakobsson, data

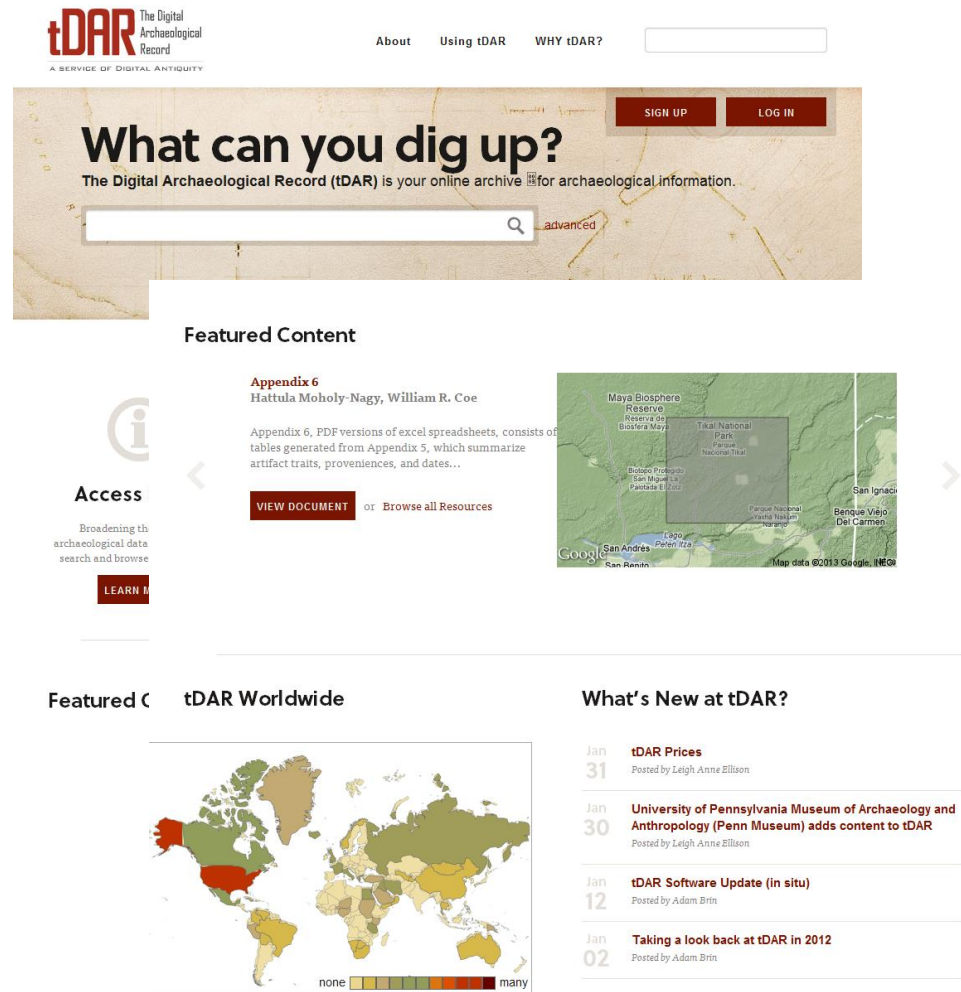
Germany: IANUS

- 2012 – DAI scoping project
- Initial staff of two
- 2015 – Implementation phase – now 4 staff



United States: tDAR

- 2009+
- Mellon start-up grant
- Based Arizona State University
- Digital Antiquity consortium
- 6 staff members



The screenshot shows the tDAR website homepage. At the top, the logo "tDAR The Digital Archaeological Record" is displayed, along with navigation links "About", "Using tDAR", and "WHY tDAR?". A search bar is present on the right. Below the header, a large banner reads "What can you dig up?" and "The Digital Archaeological Record (tDAR) is your online archive for archaeological information." A search bar with the placeholder "advanced" is below the banner. The "Featured Content" section highlights "Appendix 6" by Hattula Moholy-Nagy and William R. Coe, with a "VIEW DOCUMENT" button. To the right is a map of the Maya Biosphere Reserve. The "Access" section on the left mentions "Broadening the archaeological data search and browse" with a "LEARN MORE" button. The bottom section is divided into "Featured Content" with a world map, "tDAR Worldwide", and "What's New at tDAR?" listing recent updates and news items.

tDAR The Digital Archaeological Record
A SERVICE OF DIGITAL ANTIQUITY

About Using tDAR WHY tDAR?

What can you dig up?
The Digital Archaeological Record (tDAR) is your online archive for archaeological information.

advanced

Featured Content

Appendix 6
Hattula Moholy-Nagy, William R. Coe

Appendix 6, PDF versions of excel spreadsheets, consists of tables generated from Appendix 5, which summarize artifact traits, proveniences, and dates...

Access
Broadening the archaeological data search and browse

VIEW DOCUMENT or Browse all Resources

What's New at tDAR?

Jan 31 **tDAR Prices**
Posted by Leigh Anne Ellison

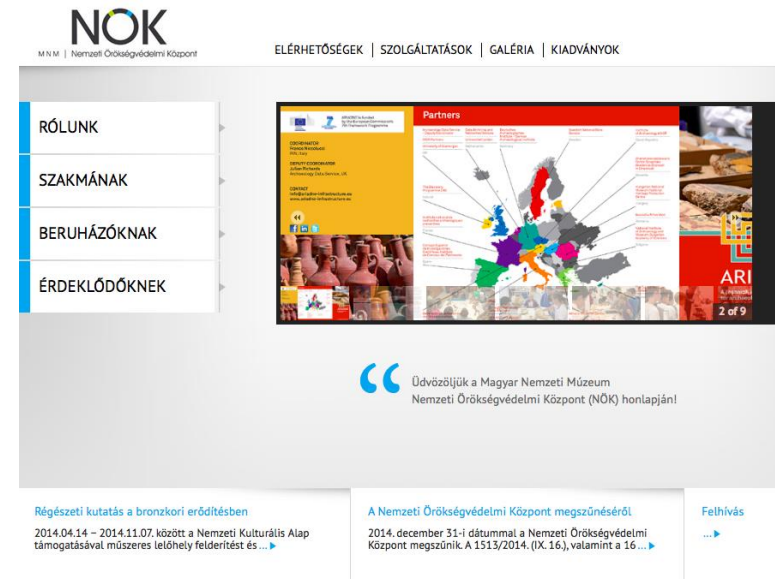
Jan 30 **University of Pennsylvania Museum of Archaeology and Anthropology (Penn Museum) adds content to tDAR**
Posted by Leigh Anne Ellison

Jan 12 **tDAR Software Update (in situ)**
Posted by Adam Britn

Jan 02 **Taking a look back at tDAR in 2012**
Posted by Adam Britn

Hungary

- No official national digital repository as yet
- 2016: 1700+ sites on line via ARIADNE - all metadata translated into English
- Includes grey literature, CAD drawings, digital photos, drawings, spreadsheets, database tables, GIS, 3D models etc
- Uses Hungarian National Museum protocols



Ariadne



About Ariadne

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ARIADNE brings together and integrates existing archaeological research data infrastructures so that researchers can use the various distributed datasets and new and powerful technologies as an integral component of the archaeological research methodology. There is now a large availability of archaeological digital datasets that, together, span different periods, domains and regions; more are continuously created as a result of the increasing use of IT. These are the accumulated outcome of the research of individuals, teams and institutions, but form a vast and fragmented corpus and their potential has been constrained by difficult access and non-homogenous perspectives.

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Introduction

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Ariadne Search Map

Search

Age

Select Some Options

Period

Select Some Options

Sub-period

Select Some Options

Culture

Select Some Options

Phase

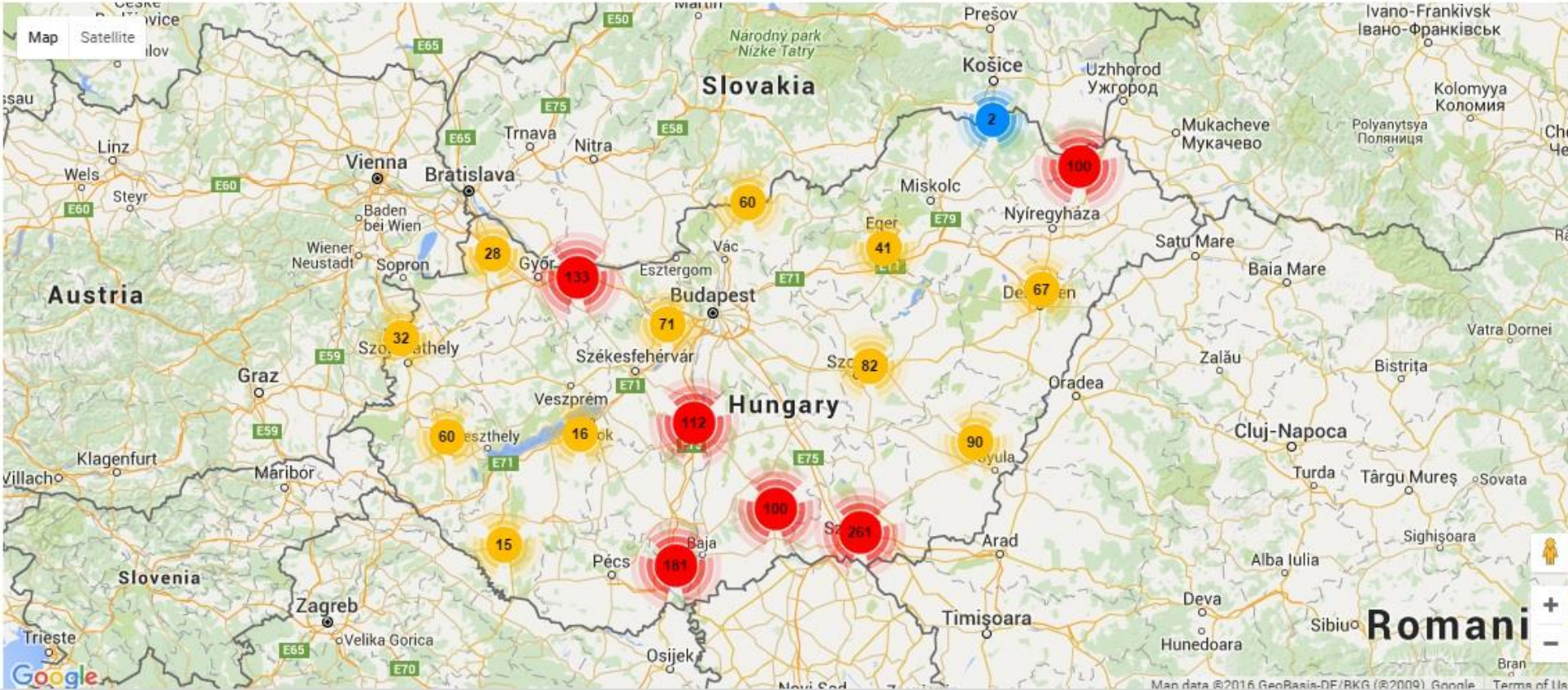
Select Some Options

Extended search

Search

We found 1697 results.

Map List



Ariadne Search Map

Search

Age

Select Some Options

Period

Select Some Options

Sub-period

Select Some Options

Culture

Select Some Options

Phase

Select Some Options

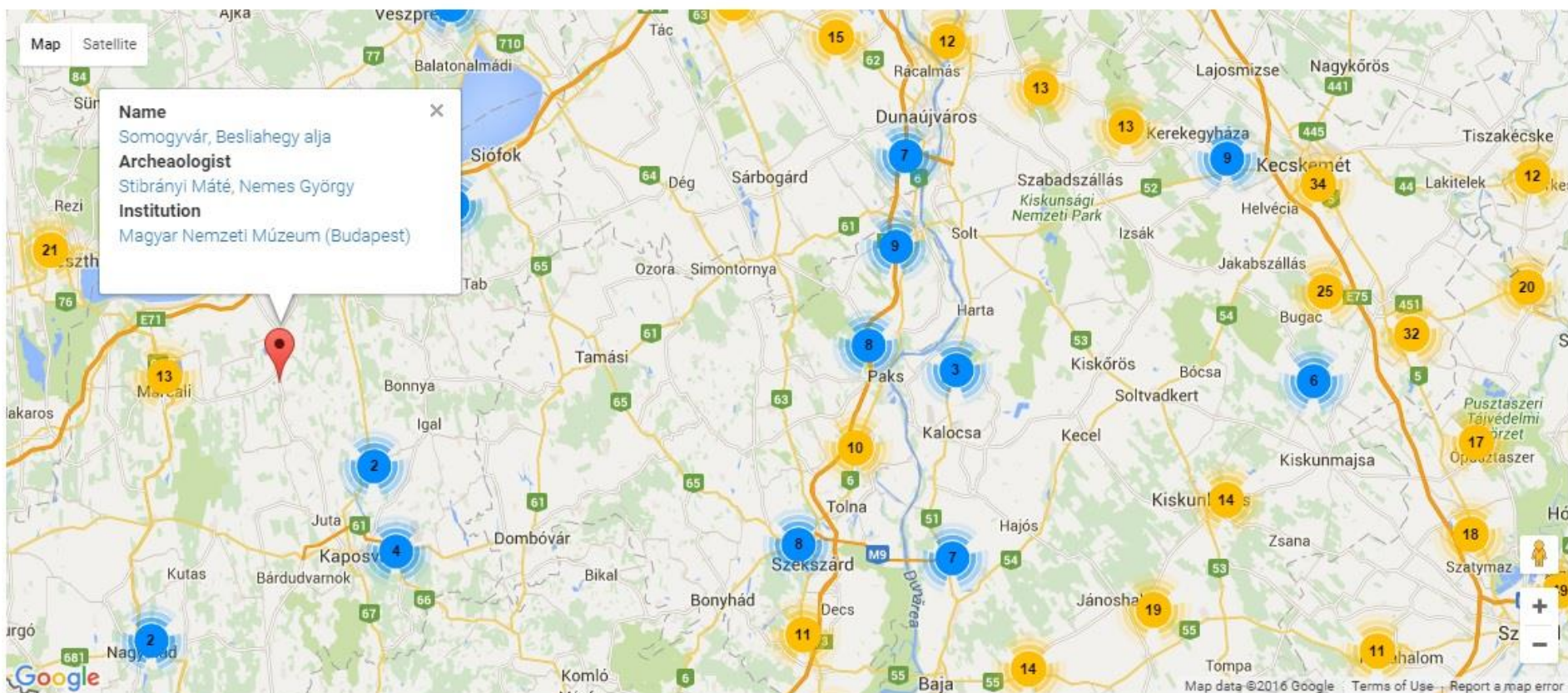
✓ Extended search

Q Search

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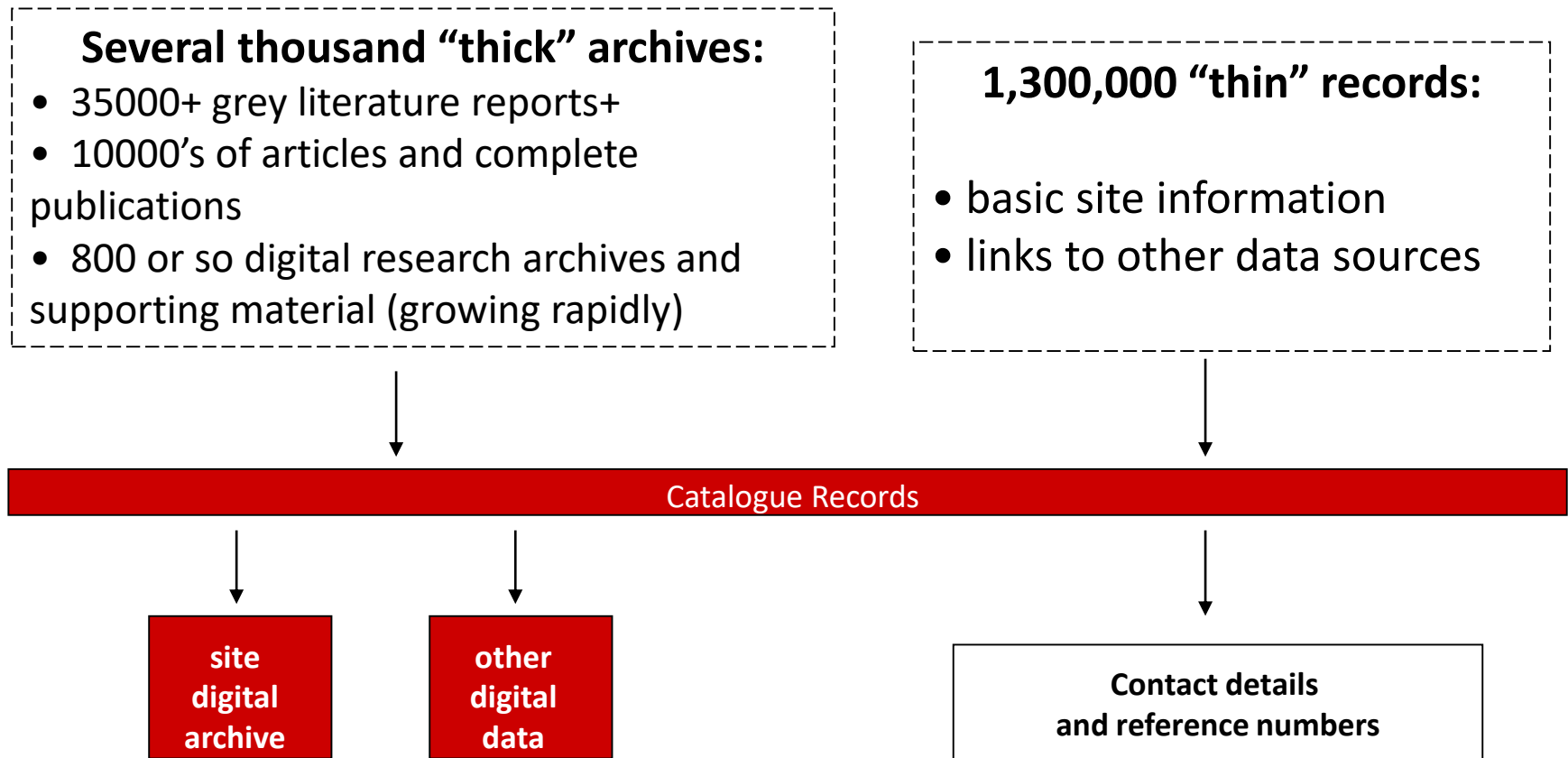
List



Outline

- Challenges:
 - Digital Preservation
 - Resource discovery & Interoperability
- Opportunities:
 - Digital dissemination & electronic publication

ADS Archsearch



- 35,000+ reports
- Research Gap
- Public excluded
- Citation

The screenshot shows the ADS website interface. At the top is the ADS logo and navigation menu. The main heading is 'Library of Unpublished Fieldwork Reports'. Below this, there is an 'Introduction' section explaining the resource's aim to make unpublished fieldwork reports available. A 'Primary contact' section lists the Archaeology Data Service at the University of York. A 'Resource identifiers' section shows the ADS Collection number 1093. On the right, there is a collage of various archaeological reports and documents, including one from Wessex Archaeology and another from HERT.

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Library of Unpublished Fieldwork Reports

Introduction
Browse by contractor
Contractors A-Z
Search reports

Introduction
The aim of this resource is to make available unpublished fieldwork reports in an easily retrievable fashion. There are **currently 35271 reports available** and this number is increasing steadily through the OASIS project in England and Scotland.

Through this resource it is possible to list the reports by contractor, using the **browse by contractor** option and also to do a more advanced search filtering these reports by period, monument/artefact type and location using the **search** option. These unpublished reports cover archaeological interventions such as: watching briefs, excavation reports and building surveys. Desk-based assessments and specialist analysis are also included.

Primary contact
Archaeology Data Service
Dept. of Archaeology
The King's Manor
University of York
YO1 7EP
UK
Tel: 01904 433954
Fax: 01904 433939
[Send e-mail enquiry](#)

Resource identifiers
ADS Collection: 1093

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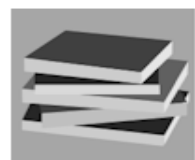
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Unpublished Fieldwork Reports (Grey Literature Library)

Introduction

[Browse by contractor](#)

[Search reports](#)



GREY LITERATURE
LIBRARY

Primary contact

Archaeology Data Service

King's Manor

Exhibition Square

York

YO1 7EP

England

Tel: 01904 323954

Fax: 01904 323939

[Send e-mail enquiry](#)

Resource identifiers

doi:10.5284/1000746

[How to cite using this DOI](#)

Details of Document

Bibliographic Reference and files

Blythe, K. (2005) *'The Limes, Ribchester'* , 2004-5/334. Oxford Archaeology North: Lancaster

Click on a button to open a file, or right click and use file --> save as from your browser menu to save the file to your computer. Alternatively, if the report is available online, click on the link to open the resource in a new window:

oxfordar2-35728_1.pdf

PDF

1013
Kb

[<< display document details >>](#)

Site details

Location

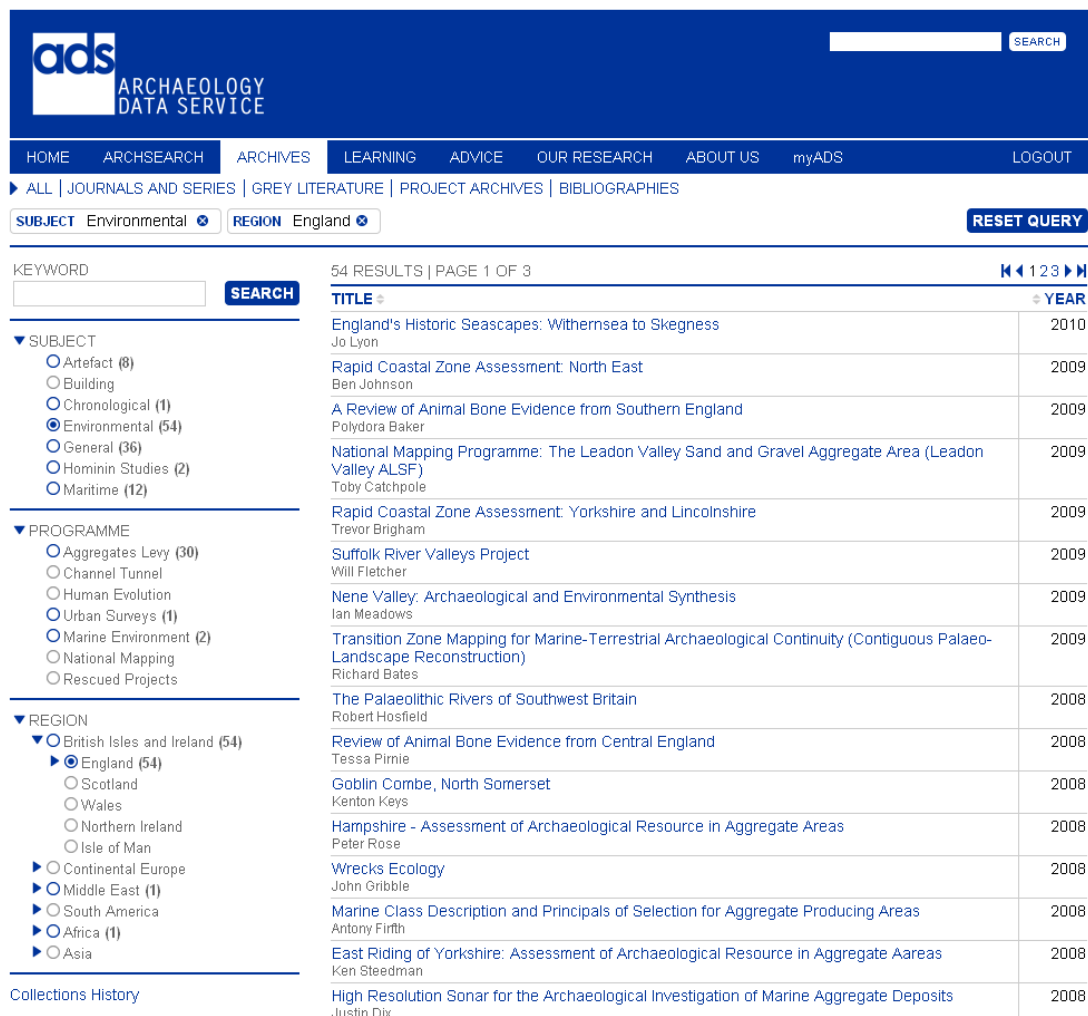
Site name The Limes, Ribchester
Parish RIBCHESTER
District RIBBLE VALLEY
County LANCASHIRE
Country ENGLAND
Grid reference SD 65861 35410 (point)

Monuments and Finds

Other details

Description A4 Document
Associated identifier oxfordar2-35728

Archives



The screenshot shows the Archaeology Data Service (ADS) website interface. At the top is a blue header with the ADS logo and a search bar. Below the header is a navigation menu with links: HOME, ARCHSEARCH, ARCHIVES (selected), LEARNING, ADVICE, OUR RESEARCH, ABOUT US, myADS, and LOGOUT. Under the ARCHIVES link, there are sub-links: ALL, JOURNALS AND SERIES, GREY LITERATURE, PROJECT ARCHIVES, and BIBLIOGRAPHIES. The main content area shows search filters for SUBJECT (Environmental) and REGION (England). A 'RESET QUERY' button is visible. The search results are displayed in a table with columns for TITLE and YEAR. The table lists 54 results, with the first few entries shown. The results include titles like 'England's Historic Seascapes: Withernsea to Skegness', 'Rapid Coastal Zone Assessment: North East', 'A Review of Animal Bone Evidence from Southern England', 'National Mapping Programme: The Leadon Valley Sand and Gravel Aggregate Area (Leadon Valley ALSF)', 'Rapid Coastal Zone Assessment: Yorkshire and Lincolnshire', 'Suffolk River Valleys Project', 'Nene Valley: Archaeological and Environmental Synthesis', 'Transition Zone Mapping for Marine-Terrestrial Archaeological Continuity (Contiguous Palaeo-Landscape Reconstruction)', 'The Palaeolithic Rivers of Southwest Britain', 'Review of Animal Bone Evidence from Central England', 'Goblin Combe, North Somerset', 'Hampshire - Assessment of Archaeological Resource in Aggregate Areas', 'Wrecks Ecology', 'Marine Class Description and Principals of Selection for Aggregate Producing Areas', 'East Riding of Yorkshire: Assessment of Archaeological Resource in Aggregate Areas', and 'High Resolution Sonar for the Archaeological Investigation of Marine Aggregate Deposits'. The years range from 2008 to 2010.

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SUBJECT Environmental REGION England RESET QUERY

KEYWORD SEARCH

54 RESULTS | PAGE 1 OF 3

| TITLE | YEAR |
|--|------|
| England's Historic Seascapes: Withernsea to Skegness Jo Lyon | 2010 |
| Rapid Coastal Zone Assessment: North East Ben Johnson | 2009 |
| A Review of Animal Bone Evidence from Southern England Polydora Baker | 2009 |
| National Mapping Programme: The Leadon Valley Sand and Gravel Aggregate Area (Leadon Valley ALSF) Toby Catchpole | 2009 |
| Rapid Coastal Zone Assessment: Yorkshire and Lincolnshire Trevor Brigham | 2009 |
| Suffolk River Valleys Project Will Fletcher | 2009 |
| Nene Valley: Archaeological and Environmental Synthesis Ian Meadows | 2009 |
| Transition Zone Mapping for Marine-Terrestrial Archaeological Continuity (Contiguous Palaeo-Landscape Reconstruction) Richard Bates | 2009 |
| The Palaeolithic Rivers of Southwest Britain Robert Hosfield | 2008 |
| Review of Animal Bone Evidence from Central England Tessa Pimie | 2008 |
| Goblin Combe, North Somerset Kenton Keys | 2008 |
| Hampshire - Assessment of Archaeological Resource in Aggregate Areas Peter Rose | 2008 |
| Wrecks Ecology John Gribble | 2008 |
| Marine Class Description and Principals of Selection for Aggregate Producing Areas Antony Firth | 2008 |
| East Riding of Yorkshire: Assessment of Archaeological Resource in Aggregate Areas Ken Steedman | 2008 |
| High Resolution Sonar for the Archaeological Investigation of Marine Aggregate Deposits Justin Dix | 2008 |

▼ SUBJECT

- Artefact (8)
- Building
- Chronological (1)
- Environmental (54)
- General (36)
- Hominin Studies (2)
- Maritime (12)

▼ PROGRAMME

- Aggregates Levy (30)
- Channel Tunnel
- Human Evolution
- Urban Surveys (1)
- Marine Environment (2)
- National Mapping
- Rescued Projects

▼ REGION

- British Isles and Ireland (54)
 - England (54)
 - Scotland
 - Wales
 - Northern Ireland
 - Isle of Man
- Continental Europe
- Middle East (1)
- South America
- Africa (1)
- Asia

Collections History

Channel Tunnel Rail Link Section 1

Stuart Foreman, 2004 (updated 2009)

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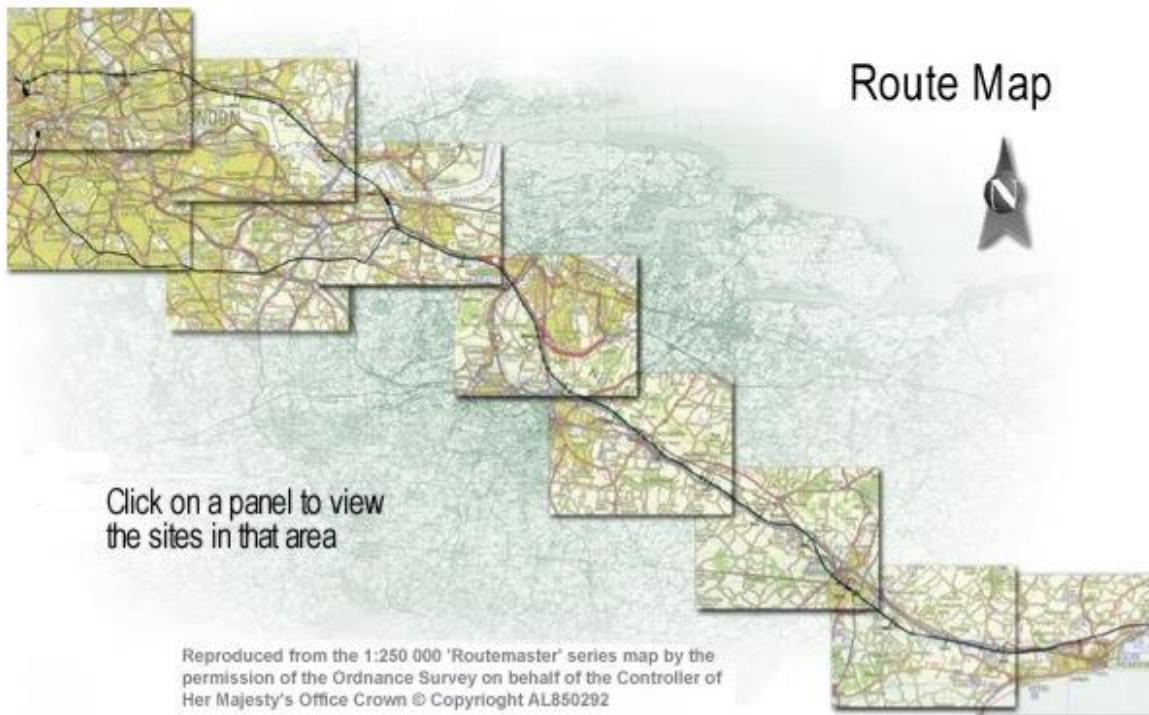
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Map Search

Click on the panels of the map below to see site details.



Route Map

Framework Archaeology Heathrow Terminal 5 Excavation Archive

Framework Archaeology, 2011

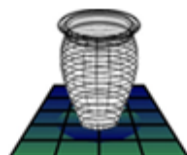
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Primary contact

Wessex Archaeology
Portway House
Old Sarum Park
Salisbury
SP4 6EB

Introduction

Framework Archaeology is a Joint Venture agreement between Oxford Archaeology (OA) and Wessex Archaeology (WA) to provide archaeological services to BAA. Given the potential scale of some of BAA's projects, the joint venture enables Framework Archaeology to draw on the full resources of both OA and WA, including site staff, specialist managers, administrative support, and technical facilities. This combination of resources (totalling over 300 staff) considerably reduces risk for both our client and us, and provides Framework Archaeology with a wider skills base.

Framework Archaeology is committed to a particular archaeological philosophy developed by BAA's archaeological consultants, Gill Andrews and John Barrett. This is concerned with understanding how people inhabited past landscapes: archaeology as a study of people rather than deposits or objects. This approach is at the heart of the Archaeological Policy adopted by the BAA Main Board. Framework projects are thus academically driven but undertaken within a commercial environment. In order to fulfil the approach a Framework Archaeology recording system has been developed and is now in operation on all Framework Projects. It places great emphasis on interpretation in addition to recording, and developing a historical narrative as the site is excavated (Andrews, Barrett &



Lower Palaeolithic technology, raw material and population ecology

Gilbert Marshall, David Duplax, Derek Roe, Clive Gamble, 2002

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A · H · R · B
arts and humanities research board

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Tel:  01784 443569 

[Send e-mail enquiry](#)

Resource identifiers

ADS Collection: 349
doi:10.5284/1000354
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Query - Results

Records 1 - 20 of 256

Pages: 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | > >>

Click on the images or the links below to view more details for each biface.



[IRREGULAR QUARTZITE HANDAXE \(344g\)](#)
Location: OLDUVAI GORGE TANZANIA
Museum: NATIONAL MUSEUM, DAR ES SALAAM, TANZANIA



[IRREGULAR QUARTZITE HANDAXE \(480g\)](#)
Location: OLDUVAI GORGE TANZANIA
Museum: NATIONAL MUSEUM, DAR ES SALAAM, TANZANIA



[IRREGULAR QUARTZITE HANDAXE \(763g\)](#)
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[IRREGULAR QUARTZITE HANDAXE \(404g\)](#)
Location: OLDUVAI GORGE TANZANIA
Museum: NATIONAL MUSEUM, DAR ES SALAAM, TANZANIA

Defence of Britain Archive

Council for British Archaeology, 2002 (updated 2006)

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YO30 7BZ
UK
Tel: 01904 671417
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Resource identifiers

ADS Collection: 224


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Shell-proof type 24 pillbox.

(Source: Book 1999)

Brick-shuttered type 24 pillbox at edge of wood. With attached porch/blast wall. Faces SW. In excellent condition. Internal access possible. A short spur of anti-tank ditch leads up to this pillbox [see UORN 8552]. Five iron picket posts are still in place in the bank on the N side of the pillbox.

(Source: Field Visit 2003/02/05)

| | |
|---------------------|--|
| Type of site | PILLBOX (TYPE FW3/24) |
| Location | At S corner of Hog Wood. |
| Area | Hinton Charterhouse, Bath and North East Somerset, England |
| Grid reference | ST 7741 5944 |
| Period | WW2 |
| Condition | Good |
| Materials | Clay Brick, Reinforced Concrete |
| Recorder | Foot, William (English Heritage Defence Areas Project) |
| Defence grouping | GHQ Line: Green - Stop Line - Burnham on Sea to near Melksham (where it joins with the GHQ Line: Blue) and then north to the River Severn at Newnham. This line is also known as the Bristol Outer Line. Mannet by VIII Corps. |
| Photographs |  |
| DOB site reference: | S0008550 |
| Reference | 1999 Ironside's Line 1999 Warwalks: Stop Line Green |
| Event | Construction, In the period 1940 1941 |


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WHERE

KEYWORD

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☐ Object (1)
☐ Monument (2)

☐ Prehistoric (1)
☐ Roman (1)
☐ Medieval (1)
☐ Post Medieval (1)

☒ Continental Europe (2)
☒ Hungary (2)

☐ Funder (2)

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[◀](#)
[1](#)
[▶](#)
[▶▶](#)

| TITLE | YEAR |
|--|------|
| Körös culture settlement, subsistence and environment: investigations of the Early Neolithic Körös culture site of Ecsegfalva 23, Co. Békés, Hungary Alasdair Whittle | 2008 |
| The Upper Tisza Project 1991-2004 Durham University, Eötvös Loránd University | 2006 |

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The Upper Tisza Project 1991-2004

Durham University, Eötvös Loránd University, 2003

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ACADEMY

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 Tel: 0191 3743625

[Send e-mail enquiry](#)

Resource identifiers
ADS Collection: 374
Collection doi: 10.5284/1000220
[How to cite using this DOI](#)

The Upper Tisza Project 1991-2004



Data CC-BY-SA by [OpenStreetMap](#)

| | | |
|----------------|--------------------------------------|------------------------------------|
| Location | World region | Continental Europe |
| | Non British Isles country | Hungary |
| | None | Valley of the river Tisza |
| | None | Plain of the southern Bodroghoz |
| | None | Southern Zemplén hills |
| Grid reference | TGN | World, Europe, Hungary |
| | Latitude longitude bounding box | 48.473687714 |
| | | 20.238137722 22.1375579834 |
| | | 47.3451011706 |
| Subject | Archaeological Sciences (England) | POLLEN |
| | Event Type (England) | EXCAVATION |
| | Event Type (England) | GEOPHYSICAL SURVEY |
| | Event Type (England) | Surface Collection |
| | Library of Congress Subject Headings | Archaeology |

Körös culture settlement, subsistence and environment: investigations of the Early Neolithic Körös culture site of Ecsefalva 23, Co. Békés, Hungary

Alasdair Whittle, 2008

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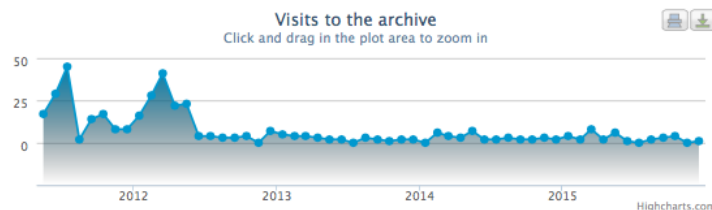
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Tel: 02920 875633
Fax: 02920 874929

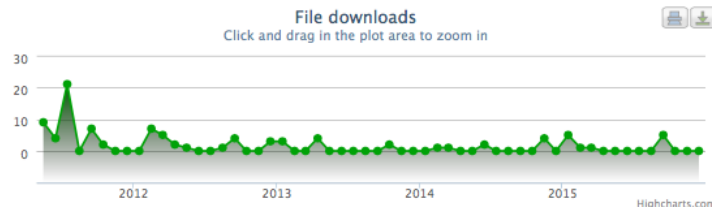
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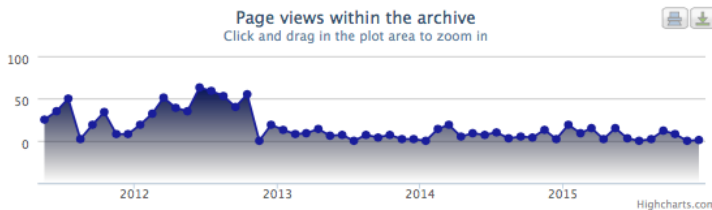
ADS Collection: 794
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The Preservation and Re-use of Archaeological Data

internet archaeology



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LEAP: Linking Electronic archives and publications



Strategy Programme.

The aim of the project is to investigate novel ways in which electronic publication over the Internet can provide broad access to research findings in the arts and humanities, and can also make underlying data available in such a way so that readers are enabled to 'drill down' seamlessly into online archives to test interpretations and develop their own conclusions.



Winner of the British Archaeological Awards - Best Archaeological Innovation 2008.

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"Making the LEAP" is funded by the Arts and Humanities Research Council (AHRC) under the ICT



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Last updated Tuesday, 22 September 2009 by Jo Gilham
Cite only: <http://ads.ahds.ac.uk/project/leap/index.html> for this page

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The Urban Landscapes of Ancient Merv, Turkmenistan

Tim Williams, Sjoerd van der Linde, 2008

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UK

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ADS Collection: 489
doi:10.5284/1000164
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The landscapes of Islamic Merv, Turkmenistan: Where to draw the line?

Tim Williams

Institute of Archaeology, University College London, 31-34 Gordon Square, London WC1H 0PY. Email: tim.d.williams@ucl.ac.uk

Summary

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This article outlines approaches for interpreting the Islamic city of Sultan Kala (Merv), c. 8th-13th centuries AD, based upon aerial photographic and satellite imagery. Hierarchies of assumptions (identification of individual wall lines; which frame spaces, rooms and courtyards; which are grouped as parts of specific buildings; which are part of urban blocks) and ontologies (information about these assumptions and the variable confidence of interpretation, from the position of lines to spatial function) provide a dynamic structure for the presentation of data, interpretation and theory.

The article establishes procedures and protocols within two sample areas (selected to represent the diverse features of the urban and suburban landscapes) to:

- Explore the theory and methodology of documenting interpretation (and uncertainty) in the transcription of aerial photographic and satellite imagery
- Develop ontological approaches to structuring interpretations and assumptions, within a hermeneutic model.
- Provide a textual and graphic narrative of the development of the areas.
- Establish an online forum (weblog) to contribute to the long-term project.
- Explore the use of other forms of electronic archive material, in particular, how imagery and audio files can be used to develop the discussion of landscapes and buildings.



Arts & Humanities
Research Council

Preparation of this electronic publication and associated [archive](#) was assisted by a [grant](#) from the AHRC under the ICT Strategy programme.

Go to article [Table of Contents](#)

Features

This article will appeal to: those interested in the presentation of data, interpretation and theory
Keywords: Merv; Silk Route; Turkmenistan; interpretation; uncertainty; aerial photographs; satellite
Find more publications on [the Silk Route](#) in the British and Irish Archaeological Bibliography (BIAB)

NEXT CONTENTS HOME COMMENTS

© Internet Archaeology/Author(s) URL: http://intarch.ac.uk/journal/issue25/merv_index.html
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The Urban Landscapes of Ancient Merv, Turkmenistan

Tim Williams, Sjoerd van der Linde, 2008

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Downloads

This section contains the shapefiles and aerial photos of the GIS as well as documentation. The aerial photos are very large so previews have been provided of a common area of the images to offer a comparison of quality and processing employed.

GIS files

Documentation:

GIS Layers PDF 71 Kb

Raster and World Files:

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|--|----------------------------|-----|-------|
| | AP Dom-Joined and enhanced | ZIP | 80 Mb |
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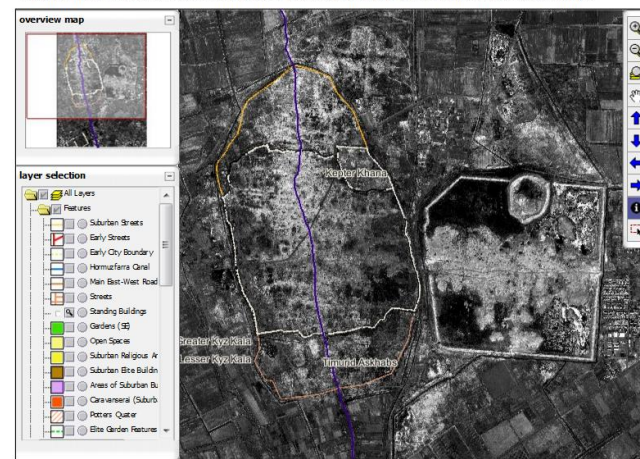
3. A short introduction to the city of Sultan Kala

With the coming of Islam, in the 7th century AD, Merv became the capital of Khurasan (the 'eastern land') (for an overview of the history see Kennedy 1999; Williams forthcoming). In the 740s the 'Abbasid revolution began here, and while Baghdad was established as the capital of the new empire, Merv's status grew, as the capital of Khurasan, from east of the Great Desert to the frontiers of India. In the same decade, the governor, Abu Muslim, commissioned a mosque to be built alongside the Madjan Canal, which flowed about a kilometre to the west of the old city of Gaur Kala. Thus began the new city of Marv al-Shahijan (Merv the great: today Sultan Kala) (Fig. 7 - opens GIS). It is tempting to see the mosque as part of the planning for the heart of the new city, and by the 9th century it lay at the centre of a thriving metropolis. The city was planned, with a street system and a carefully managed water supply with numerous canals and reservoirs in each district (Williams forthcoming). It seems likely that the new status of Merv, coupled with new ideas and beliefs that identified the need for public

Figure 6: A short introductory film about Merv



Switch to the [Turkmen](#) version



Burdale: An Anglian Settlement in the Yorkshire Wolds (Data Paper)



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Cite this as: Richards, J., and Roskams, S. (2013). Burdale: An Anglian Settlement in the Yorkshire Wolds (Data Paper). Internet Archaeology, (35). doi:10.11141/ia.35.8

Dataset Location

This dataset has been deposited with the Archaeology Data Service. doi: [10.5284/1021540](https://doi.org/10.5284/1021540)

Referee

[Referee statement](#) by Gabor Thomas

Dataset Content

The Burdale digital archive (Richards and Roskams [2013](#)) comprises a broad range of primary and secondary data derived from fieldwork and post-excavation analysis. It complements the summary report published as Richards and Roskams ([2012](#)).

Full stratigraphic reports are downloadable for each season of excavation and can be related to the sequence of CAD plans also available. These can, in turn, be set within the wider site map derived from aerial photography and geophysical survey. Final reports are available for the pottery, spindlewhorls, and [worked bone and antler](#) (Ashby [2013](#)). Other finds are simply listed in the finds databases, split by excavation year, with some preliminary notes on the ironwork included in the investigative conservation reports. The non-ferrous finds assemblage was largely missing, apart from a small number of topsoil finds recovered during metal detector surveys. Given the alleged wealth of the site, and the interest in it from 'nighthawks' we have to assume that unfortunately, most of the coinage and copper alloy metalwork has been collected from the ploughsoil over many years and is in private hands or has been sold for profit. In common with other Yorkshire sites Burdale produced very little early medieval pottery but this is likely to be a real absence rather than a product of recovery bias. The [animal bone assemblage](#) (Richardson [2010](#)) is one of the most important elements of the archive. Over 300 images are also presented, split by year of excavation.

The file [downloads](#) are organised in 3 groups: those relating to the whole project and those specifically related to excavations in [2006](#) (BUR06) or [2007](#) (BUR07).



Transparent refereeing



Figure 6: The Burdale project: a team effort!

Acknowledgements

On-site direction was undertaken by Steve Roskams, with additional supervision by Madeleine Hummler, Steve Dobson and Ben Gourley. Initial interest in the site was prompted by Cath Neal's doctoral research. Metal detecting support was provided by Mark Ainsley, Geoff Bambrook, Ian Postlethwaite, and colleagues in *Historia Detectum*. Michael Charno, Eric Thurston and Thomas Mountain provided CAD support. Mags Felter and Ian Panter at [York Archaeological Trust](#) undertook the finds conservation, and Tony Austin and Elizabeth Jelley catalogued the finds. Eleanor Blakelock examined the ironwork, and Steve Ashby the bone and antlerwork. Permission to carry out the fieldwork was granted by Lester Bell, tenant farmer, and by the landowner, the Right Honourable Michael Willoughby (now Lord Middleton) and the Birdsall Estate Company.

Funding

The fieldwork at Burdale was undertaken as part of University of York training excavations and was funded by the University of York.

Referee Statement

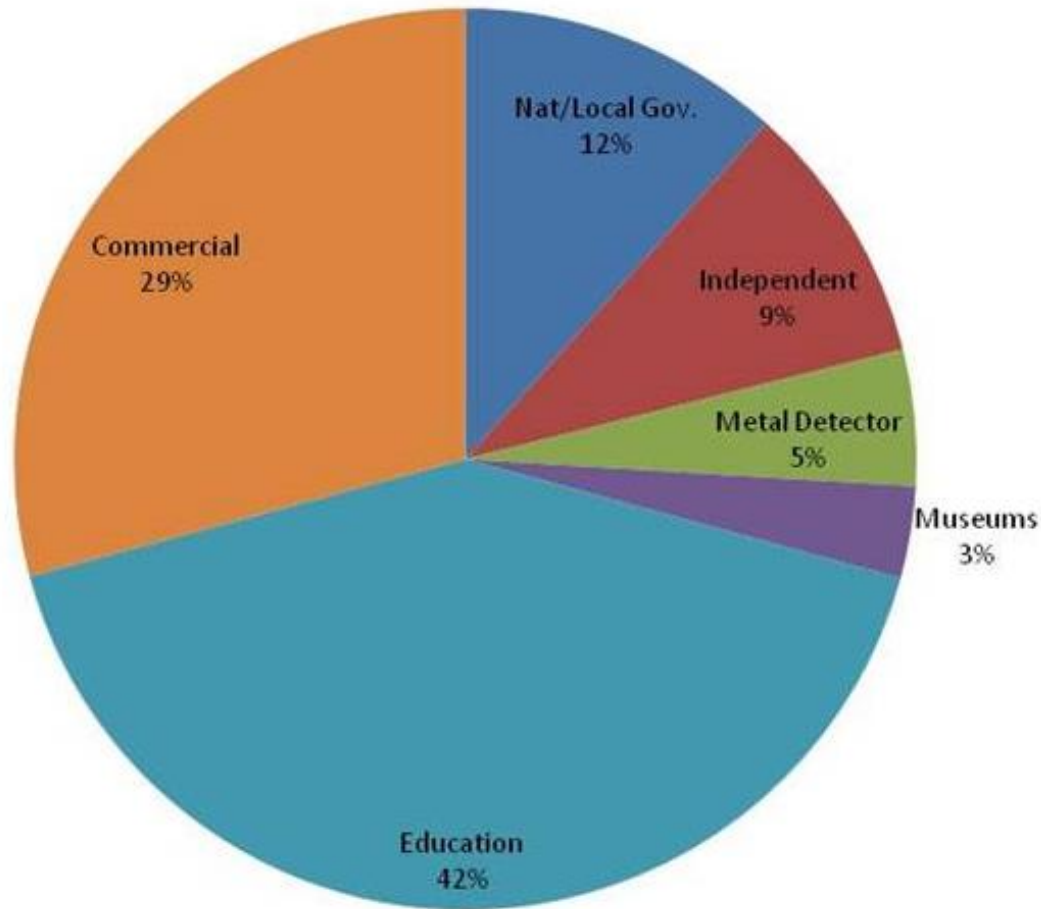
Gabor Thomas, Department of Archaeology, University of Reading, UK.

Cite this as: Thomas, G. 'Referee Statement' in Richards, J., and Roskams, S. (2013). Burdale: An Anglian Settlement in the Yorkshire Wolds (Data Paper). *Internet Archaeology*, (35). doi:10.11141/ia.35.8

The site of Burdale on the Yorkshire Wolds lies within one of the most intensively investigated archaeological landscapes in northern England. In the immediate catchment can be found the internationally important sites of Wharram Percy and West Heslerton, augmented by a cluster of other settlements identified through aerial reconnaissance and metal-detecting of which Cottam and Cowlam have previously been investigated under the ambit of the same University of York project targeting Anglian settlement on the Yorkshire Wolds. The importance of the dataset thus lies in its contribution to a broader programme of research whose cumulative results have the potential to generate something approaching a holistic view of landscape change in an English micro-region over the first millennium AD.

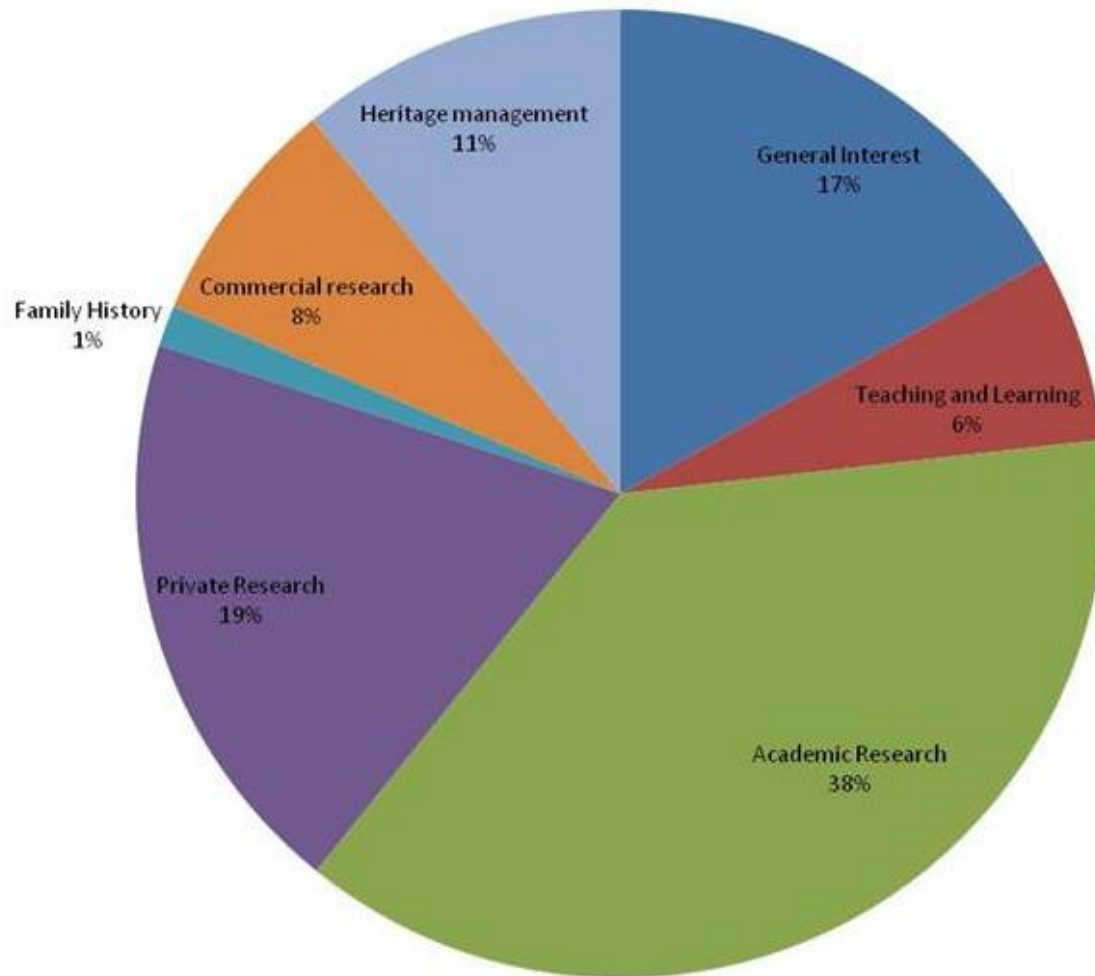
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The Preservation and Re-use of Archaeological Data

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